### BUREAU OF APPLIED ECONOMICS, INC.

WASHINGTON

# WAGES IN VARIOUS INDUSTRIES.

A SUMMARY OF WAGE MOVEMENTS DURING THE WAR.

WASHINGTON 1919 BUREAU OF APPLIED ECONOMICS, Inc. WASHINGTON.

HUGH S. HANNA, Director
W. JETT LAUCK, Chairman Advisory Board
PRICE \$1.00

# BUREAU OF APPLIED ECONOMICS, INC. WASHINGTON

# WAGES IN VARIOUS INDUSTRIES.

A SUMMARY OF WAGE MOVEMENTS DURING THE WAR.

WASHINGTON 1919 Copyright, 1919
by
BUREAU OF APPLIED ECONOMICS, Inc.
Washington.

REPRINT WITH ADDITION OF ONE CHAPTER.

### TABLE OF CONTENTS.

Preface	6
PART I. WAGE RATES.	
1. Army pay table	5
2. Arsenals of United States Government	10
3. Building trades of various cities	12
4. Building trades of New York City	22
5. Building trades, common labor	23
6. Coal mining:	
(1) Anthracite	24
(2) Bituminous	$\overline{25}$
7. Dredge and tugboat employees, Great Lakes	27
8. Farm labor	28
9. Garment trades	30
10. Harbor employees, New York	31
11. Iron and steel industry	$\frac{31}{32}$
	35
12. Longshoremen	
13. Metal mining	37
14. Metal trades, railroad shops	39
15. Navy pay roll	40
16. Navy Yards of United States Government	42
17. Printers	47
18. Railroad employees	49
19. Seamen	51
20. Shipyards	52
21. Street Railway employees	54
PART II. EARNINGS.	
22. Earnings in manufacturing industries of United States	59
23. Earnings in manufacturing industries of New York State	61



#### PREFACE.

This bulletin attempts to bring together all the available information regarding wages and earnings during the course of the war, that is to say, from 1914 to 1919. Wage data of this character are obtainable for only certain industries and, in some cases, in only fragmentary form. The industries here covered are by no means all the important industries in the country, but taken together they represent several million employees in a wide variety of work, and the wage data shown may thus be regarded as fully representative of conditions among American wage earners.

The effort has been to include in the bulletin only material from sources which may be regarded as authoritative. Even then, it is recognized that a considerable part of the material is subject to some inaccuracy. It is believed, however, that the inaccuracies are not sufficient to influence the broader wage movements developed by the data pre-

sented.

The publications of the United States Bureau of Labor Statistics, particularly the monthly Labor Review of that Bureau, are the most important sources of wage information, and these have been drawn on fully. Other Government departments have also furnished valuable information. The officials of various international labor unions have been extremely helpful in supplying information on request.

Most of the detailed and laborious work of locating and summarizing material has been done by Mr. Leifur Magnusson, assisted by Mr. D. W

Alexander, Mr. Ernest Kletsch, and Mr. Raymond Kenny.



PART I.



### WAGES IN VARIOUS INDUSTRIES.

### CHAPTER 1. Army Pay Table.

The table below is a statement of basic pay in the first enlistment of the grade and occupation named compiled from the Army Pay Table. It does not include slight additions for continuous years of service in the 2nd, 3rd, etc., enlistments. As the first enlistment period is from two to four years and as not over 25 per cent of the enlisted men continue in service it is a fair statement of possible earnings in the Army. In addition the Army man gets clothing and board and lodging—or its commutation. The pay fixed by the act of May 18, 1917, continues for the period of the war emergency, and is therefore still in effect.

### MONTHLY PAY OF ENLISTED MEN IN THE AMERICAN ARMY,

Title or Rank.	1908-1917	1917-1919	Per cent increase
Mester electricians	\$75.00	\$81.00	8.0
Master signal electricians	75.00	81.00	8.0
Engineers	65.00	71.00	9.2
Sergeant, 1st class, Hospital Corps.	50.00	56.00	12.0
Regimental Sergeant Major.	45.00	51.00	13.3
Regimental Q. M. Sergeant	45.00	51.00	13.3
Regimental Commissary Sergeants	45.00	51.00	13.3
Sergeants Major, Senior Grade Coast Artillery	45.00	51.00	13.3
Battalion Sergeants-Major of Engineers	45.00	51.00	13.3
Post Quartermaster Sergeants	45.00	51.00	13.3
Post Commissary Sergeants.	45.00	51.00	13.3
Post Ordnance Sergeants.	45.00	51.00	13.3
Battalion Q. M. Sergeants of Engineers.	45.00	51.00	13.3
Electrician-Sergeants, 1st class, Signal Corps.	45.00	51.00	13.3
First Sergeants.	45.00	51.00	13.3
Battalion Sergeant-Major Infantry and Field Artillery	40.00	48.00	20.0
Squadron, Sergeant Major	40.00	48.00	20.0
Sergeants-Major, junior grade, Coast Artillery	40.00	48.00	$\tilde{20.0}$
Battalion Quartermaster Sergeant, Field Artillery	40.00	48.00	20.0
Master Gunners	40.00	48.00	20.0
Electrician Sergeants, 2nd class	36.00	44.00	22.2
Sergeants of Engineers, Ordnance and Signal Corps	36.00	44.00	22.2
Q. M. Sergeant of Engineers.	36.00	44.00	22.2
Mess Sergeant	36.00	44.00	$\tilde{2}\tilde{2}.\tilde{2}$
Color Sergeants	36.00	44.00	22.2
Sergeant and Q. M. Sergeant of Cavalry, Artillery and	30.00	41.00	44. <b>2</b>
Infantry	30.00	38.00	26.7
Stable Sergeants.	30.00	38.00	26.7
Acting Cooks of Hospital Corps.	30.00	38.00	$\frac{26.7}{26.7}$
Firemen	30.00	38.00	26.7
Cooks	30.00	38.00	$\frac{26.7}{26.7}$
Corporals of Engineers	24.00	36.00	50.0
Corporals of Ordnance	24.00	36.00	50.0
Corporals of Signal Corps.	24.00	36.00	50.0
Corporals of Hospital Corps	24.00	36.00	50.0
Chief Mechanics	24.00	36.00	50.0
Mechanics, Coast Artillery	24.00	36.00	50.0
Corporals of Cavalry	21.00	36.00	71.4
Corporals of Artillery	21.00	36.00	$71.\hat{4}$
Corporals of Infantry.	21.00	36.00	71.4
Mechanics of Field Artillery	21.00	36.00	71.4
Blacksmiths and Farriers.	21.00	36.00	71.4
Saddlers	21.00	36.00	71.4
Wagoners	21.00	36.00	71.4
Artificers	21.00	36.00	71.4
Private, 1st class, Engineers, Ordnance, Signal Corps and		30.00	****
Hospital Corps	18.00	33.00	83.3
Privates, Hospital Corps.	16.00	31.00	93.8
Trumpeters	15.00	30.00	100.0
Musicians of Infantry, Artillery and Engineres	15.00	30.00	100.0
Privates of Cavalry, Engineers, Artillery, Infantry, Signal	10.00	30.00	200.0
Corps	15.00	30.00	100.0
Privates, 2nd class, Engineers, Ordnance.	15.00	30.00	100.0
- ,,	10.00	00.00	100.0

### CHAPTER 2.

### ARSENALS, UNITED STATES GOVERNMENT.

The following statement summarized from the Monthly Labor Review of the United States Bureau of Labor Statistics for October 1919 is a tabulation of the basic day rates of payment for the principal occupations in the arsenals of the War Department for 1914 and 1919. In the case of piece workers, the rates shown are the minimum guaranteed rates per day. There are maximum and minimum ranges, as shown, within which compensation is according to degree of skill. The minimum is not an entrance rate necessarily; the rate at which a man is hired is based rather on skill and experience. The rates by no means reflect actual earnings, least of all during the war period when bonuses were paid and a great deal of overtime was worked. The value of the rates is principally to reflect basic wage movements in the Federal arsenals; in that respect they have the same value as union wage scales.

The basic eight-hour day is in existence in all the arsenals.

### WAGES IN VARIOUS INDUSTRIES.

### MAXIMUM BASIC DAILY RATES OF PAY IN UNITED STATES ARSENALS 1914 and 1919.

(Compiled from Monthly Labor Review of U. S. Bureau of Labor Statistics, October, 1919.)

		Frankford.			Watervliet.	
Occupation.	1914	1919	Per cent increase.	1914	1919	Per cent increase.
Blacksmith	<b>3</b> .52	6.40	81.8	3.28	6.88	109.8
Carpenter	3.20	5.92	85.0	3.20	5.92	85.0
Die sinkerElectrician	$\frac{4.48}{3.00}$	$\frac{6.88}{5.92}$	53.6 $97.3$	3.52	6.40	81.8
Laborer	1.76	3.68	109.1	2.00	3.68	84.0
Millwright	3.00	5.92	97.3		5.92	
Moulder		6.40				
Machinist	3.00	6.40	113.3	4.00	6.40	60.0
Machinist's helper	2.24	4.72	110.7	2.00	4.32	116.0
Machine operator	1.76	5 20	100.0	2.24	5.36	139.3
Painter	$\frac{2.60}{3.44}$	5.36 6.40	106.2 56.0	3.20	5.35 6.40	100.0
Patternmaker	3.00	5.92	57.3	3.28	6.40	95.1
Steamfitter	2.52	0.02	01.0	3.28	6.40	
Sheet metal worker	3.20	5.92	85.0	1	0.10	
Tinsmith	3.20	5.92	85.0	3.04	6,40	110.5
Toolmaker	4.48	6.88	53.6	4.00	6.88	72.0
Gaugemaker	4.48	6.88	53.6			

		Watertown	ı <b>.</b>		Rock Islan	d.
Occupation.	1914	1919	Per cent increase.	1914	1919	Per cent increase.
Blacksmith	3.52	7.68	118.2	3.75 4.00	6.24 5.92	66.4 48.0
Carpenter	3.28	5.92	80.5	$\frac{3.25}{3.75}$	5.44	67.4 83.5
Die sinkerElectrician	3.52	6.40	81.8	3.25	5.92	82.2
Laborer		3.68 5.92	64.3	$\frac{1.85}{2.75}$	3. <b>6</b> 8 5.04	98.9 83.3
Moulder	3.68	6.40 6.40	73.9 70.1	$\frac{3.25}{3.75}$	$\frac{5.92}{6.40}$	82.2 70.7
Machinist's helper	$\frac{2.80}{2.56}$	4.32 5.36	54.3 109.4	$^{2.25}_{2.25}$	4.56 5.04	102.7 $124.0$
PainterPatternmaker	2.88	5. <b>36</b> 6.88	86.1 72.0	$\frac{3.00}{3.75}$	$5.60 \\ 5.92$	86.7 57.9
Plumber Steamfitter	3.28	6.40	95.1 42.2	3.50 3.00	6.00 6.00	71.5 100.0
Sheet metal worker		1		3.00	5.92 5.92	97.3 97.3
Toolmaker	3.68	6.88	87.0	4.25 4.25	6.88 6.88	61.9 61.9

Springfield.					of the five combined.	arsenals
Occupation.	1914	1919	Per cent increase.	1914	1919	Per cent increase.
Blacksmith Boilermaker Carpenter Die sinker Electrician Laborer Millwright Moulder Machinist Machinist's helper Machine operator Painter Patternmaker Plumber	3.75 4.75 3.00 2.00 3.50 3.75 2.60 3.50	5.70 5.20 6.40 5.76 3.68 5.36 5.92 5.20 4.80	62.9 38.7 34.7 92.0 84.0 53.1 57.9 100.0 37.1 30.0	3.51 4.00 3.34 4.33 3.26 1.97 3.08 3.47 3.65 2.32 2.28 2.99 3.60 3.41	6.58 5.92 5.68 6.72 6.08 3.68 5.63 6.24 6.30 5.48 5.24 6.30 6.40	87.5 48.0 70.1 55.2 86.5 86.8 82.8 79.8 72.6 136.2 129.8 110.7 77.7 75.4
Steamfitter Sheet metal worker Tinsmith Toolmaker Gaugemaker	3.50	5.20 5.20 6.40 6.40	38.7 48.6 50.6 50.6	3.41 3.10 3.19 4.13 4.33	6.00 5.92 5.66 6.78 6.72	76.0 91.0 77.4 64.2 55.2

### CHAPTER 3.

### BUILDING TRADES OF VARIOUS CITIES.

Information regarding the trend of union wage rates in the building trades was obtained for three large groups of workers: (1) Union wages for various trades for most of the larger cities of the country, as compile by the United States Bureau of Labor Statistics and supplemented by data furnished by union officials; (2) Wage rates of building laborers under the scales of the Hod Carriers' and Building Laborers' Union; and (3) Prevailing wages in the building trades of New York as published

by the Building Trades Council of that city.

A brief analysis of the wage movements in each of these three groups is presented in this and the two following chapters. In considering these data it is important to bear in mind just what the union scale is. In brief, the union scale is a statement, either written or definitely understood, of wages and hours of labor agreed to or accepted by an organization of union men and an employer or group of employers, under which agreement union men are actually working. The union scale usually fixes the limit in only one direction. It sets a minimum wage and a maximum of hours for a regular day's work. This compilation shows such minimum wage and maximum hours as are established by the agreed scale. In certain cities, some workmen, and at the present time probably a considerable number, actually are paid more than the scale, and in some instances employees work less than the scale hours. In general, however, the union scale represents the prevailing scale for efficient labor.

### SKILLED BUILDING TRADES IN LARGE CITIES.

The series of tables following show the prevailing union wage rates and regular weekly hours in 1914 and in 1919 for certain of the more important trades for which information was obtainable. In general the data for 1914 were taken from Bulletin 171 of the United States Bureau of Labor Statistics and the data for 1919 were supplied by the international headquarters of the union concerned and give the rates prevailing in or about September of this year.

A total of at least 30 cities are covered for most of the trades, althout has not always been possible to obtain information for all trades in

each of these cities.

The first table gives the averages, by trades, for all cities combined. The succeeding tables give the detailed data by trades and cities.

### SUMMARY OF UNION RATES OF PAY AND HOURS OF WORK IN VARIOUS CITIES, $1914\ \mathrm{and}\ 1919.$

	Cents per hour.				]	Hours p	er week.		
Occupation.	No. of cities.	1914	No. of cities.	1919	Per cent increase.	No. of cities.	1914	No. of cities.	1919
Bricklayers	<b>39</b> 38	68.2 50.8	39 37	89.3 78.2	30.9 53.9	39 38	$\frac{45.2}{45.6}$	39 37	44.2 44.2
ishers	18 35 37	59.3 52.8 47.4	$\frac{14}{27}$	80.8 79.9 76.2	36.3 51.4 60.8	18 35 36	47.1 45.6 44.6	14 27 37	$44.9 \\ 44.3 \\ 42.8$
Plasterers	35 34 32	67.7 61.6 51.8	33 34 29	89.5 92.4 80.9	32.2 50.0 56.2	35 34 30	$44.6 \\ 45.4 \\ 43.3$	34 34 28	43.6 44.0 44.0
Steam fitters Structural iron workers	33 32	61.2 62.1	33 32	92.8 94.2	51.6 51.7	33 32	44.4 44.5	33 31	44.0 44.0

### BRICKLAYERS

		Rate in Cents	Per cent	Hours pe	r Week
	1914	1919		1914	1919
Boston Buffalo Fall River Manchester Newark	65.0 65.0 60.0 60.0 65.0	90.0 90.0 85.0 90.0 80.0	38.46 38.46 41.67 50.00 23.07	44 48 48 44 44	44 44 44 44 44
New Haven New York Philadelphia Pittsburgh. Providence.	60.0 $75.0$ $65.0$ $70.0$ $65.0$	82.5 87.5 100.0 100.0 90.0	37.50 16.67 53.85 42.86 38.46	44 44 44 44 44	44 44 44 44
Scranton Atlanta Baltimore Charleston Jacksonville	60.0 $45.0$ $62.5$ $40.0$ $62.5$	$\begin{array}{c} 75.0 \\ 100.0 \\ 100.0 \\ 95.0 \\ 75.0 \end{array}$	25.00 122.22 60.00 137.50 20.00	44 53 245 353 48	44 44 45 44 45
Richmond Washington Chicago Cincinnati Cleveland	65.0 $66.7$ $75.0$ $65.0$ $70.0$	100.0 100.0 100.0 90.0 100.0	53.85 49.93 33.33 38.46 42.86	45 445 44 45 44	45 44 44 45 44
Detroit. Indianapolis Kansas City Milwaukee. Minneapolis	65.0 75.0 75.0 67.5 70.0	100.0 90.0 100.0 90.0 87.5	53.85 20.00 33.33 33.33 25.00	548 44 44 44 48	44 44 44 44 44
Omaha St. Louis, Birmingham Dallas Little Rock	70.0 75.0 70.0 87.5 75.0	100.0 100.0 87.5 112.5 100.0	42.86 33.33 25.00 28.57 33.33	44 44 44 44 44	44 44 44 48 44
Louisville. Memphis New Orleans Denver. Los Angeles.	65.0 75.0 62.5 75.0 75.0	75.0 87.5 75.0 100.0 100.0	15.38 16.67 20.00 33.33 33.33	48 44 44 44 44	44 44 44 44
Portland	75.0 80.0 87.5 75.0	$\begin{array}{c} 112.5 \\ 100.0 \\ 112.5 \\ 112.5 \end{array}$	50.00 25.00 28.57 50.00	44 44 44 44	44 44 44 44
AverageCities	68.2	89.3 39	30.94	45.2 39	44.2

From information supplied by Mass. Bureau of Labor Statistics.
 44 hours and \$27.50 per week Nov. to March inc.
 Work 53 hours, paid for 54.
 444 hours per week, Oct. to April.
 444 hours per week Oct. to April inc.

### WAGES IN VARIOUS INDUSTRIES.

### CARPENTERS.

	Hourly Rat	e in Cents.	Per cent Increase.	Hours pe	er Week
	1914	1919		1914	1919
Boston. Buffalo Fall River. Manchester Newark.	55.0 50.0 42.0 40.0 50.0	100.0 70.0 75.0 70.0 80.0	81.82 40.00 78.57 75.00 60.00	44 48 48 48 44	40 44 44 41 41 44
New Haven New York Philadelphia Pittsburgh Providence	50.0 62.5 55.0 56.3 50.0	65.0 78.0 80.0 90.0 80.0	30.00 24.80 45.45 59.85 60.00	44 44 44 44	44 44 44 44 44
Scranton. Atlanta. Baltimore. Charleston. Jacksonville.	47.5 40.0 43.8 33.3 37.5	70.0 60.0 80.0 75.0 65.0	47.37 50.00 82.65 125.22 73.33	48 50 44 153 48	44 44 44 48 48
Washington Chicago Cincinnati Cleveland Detroit	50.0 65.0 50.0 55.0 50.0	87.5 100.0 70.0 85.0 80.0	75.00 53.85 40.00 54.54 60.00	44 } 44 44 44 44 44	44 44 44 44 44
Indianapolis. Kansas City. Milwaukee. Minneapolis. Omaha.	50.0 60.0 50.0 50.0 50.0	75.0 85.0 70.0 75.0 75.0	50.00 41.66 40.00 50.00 50.00	44 } 44 44 48 44	. 44 44 44 44
St. Louis Birmingham Dallas Little Rock Louisville	62.5 45.0 55.0 50.0 45.0	82.5 65.0 87.5 80.0	32.00 44.44 59.09 60.00	44 48 44 48 44	44 44 44 44
Memphis. New Orleans Denver. Los Angeles Portland	50.0 40.0 60.0 50.0 50.0	75.0 60.0 87.5 75.0 85.0	50.00 50.00 45.83 50.00 70.00	44 48 44 48 44	44 48 44 44 44
Salt Lake City San Francisco Seattle	62.5 62.5 56.3	75.0 87.5 94.0	20.00 40.00 66.96	44 44 44	44 44 44
Average	50.8 38	78.2 37	53.94	45.6 38	44.2 37

Work 53 hours paid for 54.

### CEMENT WORKERS AND FINISHERS.

	Hourly Rate in Cents.		Per cent	Hours pe	er Week
	1914	1919	Increase.	1914	1919
Boston	62.5 62.5	90.0	44.0	44 44	44
New YorkPhiladelphiaChicago	62.5 47.5 65.0	90.0 72.5 80.0	44.0 52.6 23.1	44 48 44	44 44 44
Cincinnati Cleveland Detroit Indianapolis Kansas City	50.0 55.0 50.0 55.0 65.0	60.0 80.0 80.0 70.0 87.5	20.0 45.5 60.0 27.3 34.6	50 48 54 50 <b>4</b> 4	50 44 44 50 44
Milwaukee St. Louis. Little Rock Denver. Los Angeles.	60.0 55.6 68.8	70.0 83.5 87.5	55.6 39.2 27.2	48 44 54 44 48	44 44 44
Portland		80.0 100.0	28.0 33.3	48 44 48	44 <b>44</b>
AverageCities	59.3 18	80.8	36.3	47.1 18	44.9 14 /

### INSIDE WIREMEN.

	Hourly Rat	e in Cents.	Per cent	Hours pe	er Week
	1914	1919	Increase.	1914	1919
Boston Buffalo Fall River Manchester	55.0 47.5 37.5 34.8	77.5 70.0	40.90 47.37	44 48 48 48	44 44
New York Philadelphia Pittsburgh Providence Scranton	62.5 60.0 45.0 57.0 50.0 46.9	75.0 75.0 82.5 90.0 68.5	25.00 83.33 57.89 46.05	44 44 44 48 44 48	44 44 44 44
Baltimore Jacksonville Richmond Washington Chicago	43.8 45.0 43.8 60.0 75.0	70.0 85.0 100.0 87.5	59.82 88.88 66.66 16.66	48 45 48 44 44	44 44 44 44
Cincinnati Cleveland Detroit Indianapolis Kansas City	50.0 60.0 50.0 50.0 62.5	68.8 87.5 72.0 75.0	37.60 45.83 44.00 20.00	44 ½ 44 148 148 48	44 44 44 44
Milwaukee. Minneapolis. Omaha. St. Louis. Dallas.	50.0 50.0 50.0 70.0 56.3	75.0 87.5 87.5	50.00 75.00 25.00	44 44 44 44	44 44 44
Little Rock. Louisville. Memphis. New Orleans. Denver.	40.0	60.0 80.0 90.0 82.5	50.00 60.00 80.00 46.54	48 48 44 48 44	48 44 44 44
Los Angeles. Portland. Salt Lake City. San Francisco. Seattle.		72.5 87.5 75.0 87.5 87.5	45.00 55.42 33.21 40.00 40.00	48 44 44 44 44	48 44 41 44 44
AverageCities	52.8 35	79.9 27	51.4	45.6 35	44.3 27

<sup>1 44</sup> hours June to Sept. inc. 2 44 hours July to Sept. inc.

### PLASTERERS.

	Hourly Rat	e in Cents.	Per cent Increase.	Hours pe	er Week
	1914	1919		1914	1919
Boston Buffalo Fall River Manchester Newark	65.0 60.0 60.0 50.0 65.0	90.0 85.0 75.0	38.46 41.66 25.00	44 44 48 44 44	44 } 40 44 44 1
New Haven	60.0 68.8 62.5 68.8 55.0	82.5 100.0 80.0 97.5 80.0	37.50 45.35 28.00 41.71 45.45	44 44 44 44 44	44 44 40 44 44
Atlanta Baltimore Jacksonville Washington Chicago	45.0 62.5 62.5 62.5 75.0	67.4 87.5 75.0 87.5 87.5	49.78 40.00 20.00 40.00 16.66	53 44 48 44 44	48 44 44 44 44
Cincinnati Cleveland Detroit Indianapolis Kansas City	75.0 62.5 68.8 65.0 75.0	87.5 90.0 100.0 87.5 100.0	16.66 44.00 45.35 34.62 33.33	44 44 44 44} 44	44 } 44 44 44 } 44 }
Milwaukee Minneapolis Omaha St. Louis Birmingham	65.0 70.0 75.0 75.0 62.5	87.5 87.5 87.5 100.0 75.0	34.61 25.00 16.66 33.33 20.00	44 44 44 44	44 44 44 44 44
Dallas Louisville Memphis New Orleans Denver	87.5 65.0 75.0 62.5 75.0	112.5 87.5 87.5 75.0 100.0	28.57 34.62 16.66 20.00 33.33	44 44 44 48 44	44 44 44 45 44
Los Angeles Portland Salt Lake City San Francisco Seattle		87.5 80.0 100.0 112.5 112.5	16.66 6.66 33.33 28.57 50.00	44 44 44 44 44	44 44 44 40 40
AverageCities	67.7 35	89.5 33	32.2	44.6 35	43.6 34

<sup>&#</sup>x27;No rate given.

PAINTERS.

,	Hourly Rat	e in Cents	Per cent	Hours pe	r Week
4	1914	1919	Increase.	1914	1919
Boston Buffalo Fall River Newark New Haven New York	55.0 46.9 37.5 44.0 40.9 50.0	90.0 62.5 65.0 75.0 62.5 87.5	63.64 33.26 73.33 70.45 52.81 75.00	44 48 44 44 44 44	40 44 44 44 44 44
Philadelphia Pittsburgh Providence Scranton Atlanta	42.5 56.3 45.5 40.0 33.3	80.0 87.5 70.0 65.0 60.0	88.23 55.42 53.85 62.50 80.18	44 44 48 48 531	44 44 44 44 44
Baltimore Charleston Jacksonville Richmond Washington	37.5 25.0 37.5 30.6 50.0	68.75 65.0 75.0 60.0 90.0	83.33 160.00 100.00 96.08 80.00	48 48 48 54 44	44 44 44 44 44
Chicago Cincinnati Cleveland Detroit Indianapolis	70.0 50.0 50.0 45.0 50.0	87.5 75.0 85.0 80.0 70.0	26.00 50.00 70.00 77.77 40.00	44 44 44 48 44	44 44 44 44 44
Kansas City Milwaukee Minneapoli <sub>s</sub> Dmaha St. Louis	60.0 50.0 50.0 50.0 60.0	87.5 70.0 70.0 87.5 75.0	45.83 10.00 40.00 75.00 25.00	44 44 44 44 44	44 44 44 44
Birmingham Dallas Little Rock Louisville Memphis.	45.0 50.0 50.0 50.0 52.5	87.5 80.0 62.5 75.0	75.00 60.00 25.00 42.86	48 44 48 48 44	44 44 44 44
New Orleans Denver Los Angeles Portland San Francisco	40.0 50.0 43.8 50.0 59.4	50.0 80.0 75.0 90.0 100.0	25.00 60.00 71.23 80.00 68.35	48 44 48 44 44	44 44 44 44 44
Seattle	56.3	90.0	59.86	44	40
Average	47.4 37	76.2 36	60.8	44.6 36	42.8 37

Work 53 hours, paid for 54.

### WAGES IN VARIOUS INDUSTRIES.

### PLUMBERS.

	Hourly Rat	e in Cents.	Per cent Increase.	Hours pe	er Week
	1914	1919		1914	<b>19</b> 19
Boston. Buffalo Fall River. Manchester. Newark	65.0	100.0	53.8	44	44
	56.3	81.2	44.2	48	44
	43.8	81.2	85.4	48	44
	31.3	75.0	139.6	48	44
	62.5	87.4	39.8	44	44
New York. Philadelphia Pittsburgh Providence Scranton.	68.8	87.4	27.0	44	44
	50.0	81.2	62.4	44	44
	62.5	93.6	49.8	44	44
	56.3	90.0	59.9	44	44
	53.1	75.0	41.2	48	44
Baltimore. Jacksonville Richmond. Washington. Chicago.	50.0	100.0	100.0	48	44
	62.5	100.0	60.0	48	44
	50.0	81.2	62.4	48	44
	56.3	100.0	77.6	48	44
	75.0	100.0	33.3	. 44	44
Cleveland Detroit Indianapolis Kansas City Milwaukee	62.5 56.3 62.5 68.8 62.5	100.0 87.4 87.5 100.0 81.2	60.0 55.2 40.0 45.5 29.9	44 48 44 44 44	44 44 44 44
Minneapolis. Omaha. St. Louis. Dallas. Little Rock.	62.5	87.5	40.0	44	44
	68.3	100.0	46.4	44	44
	75.0	100.0	33.3	44	44
	75.0	100.0	33.3	44	44
	62.5	87.5	40.0	44	44
Louisville	60.0	90.0	50.0	44	44
Memphis	62.5	87.5	40.0	48	44
New Orleans	56.3	87.5	55.4	48	44
Denver	62.5	100.0	60.0	44	44
Los Angeles	56.3	100.0	77.6	44	44
Portland	75.0	100.0	33.3	44	44
	75.0	100.0	33.3	44	44
	75.0	112.4	49.9	44	44
	75.0	100.0	33.3	44	44
Average	61.6 34	92.4 34	50.0	45.4 34	44.0 34

### SHEET METAL WORKERS.

	Hourly Rat	e in Cents.	Per cent Increase.	Hours p	er Week
	1914	1919		1914	191 <b>9</b>
Boston¹ Buffalo Manchester Newark New Haven New York	55.0 50.0 34.4 60.0 47.7 62.5	90.0 70.0 50.0 85.0 75.0 75.0	63.64 40.00 45.35 41.67 57.23 20.00	44 48 48 44 44 44	44 44 44 44 44 44
Philadelphia. Pittsburgh. Providence Scranton Baltimore	50.0 55.0 48.0 46.9 40.0	75.0 90.0 75.0 80.0	50.00 63.64 59.91 100.0	44 41 44 48 <sup>2</sup> 48	44 44 44
Cincinnati Washington Chicago Cleveland Detroit	45.0 50.0 68.8 45.0 50.0	75.0 85.0 90.0 80.0	50.00 23.55 100.0 60.00	44 44 44 48 48	44 44 44 44
Indianapolis. Kansas City Milwaukee Minneapolis. Omaha	50.0 60.0 45.0 50.0 42.5	75.0 80.0 67.0 80.0 75.0	50.00 33.33 48.89 60.00 76.47	44 44 48 48 44	44 44 44 44
St. Louis Dallas Little Rock Louisville Memphis	60.0 56.3 52.5 42.5 50.0	80.0 90.0 65.0 80.0	33.33 59.86 52.94 60.00	44 44 48 48 48	44 44 44 44
New Orleans. Denver. Los Angeles. Portland. San Francisco.	56.3	82.5 93.8 81.3 100.0 112.5	106.25 66.61 44.41 77.62 63.52	48 44 44 44 44	44 44 44 44
Seattle	62.5	90.0	44.00	44	44
AverageCities	51.84 32	80.9 29	56.2	$\frac{45.5}{32}$	44.0 28

 $<sup>^1</sup>$  From information supplied by Mass. Bureau of Labor Statistics.  $^2$  44 hours per week June to Sept. inc.

### STEAMFITTERS.

	Hourly rat	te in cents	Per cent Increase.	Hours	per week.
	1914	1919		1914	1919
Boston. Buifalo. Manchester. Newark New York.	50.0	100.0	100.0	44	44
	56.3	81.2	44.3	48	44
	31.3	75.0	139.6	48	44
	62.5	87.5	40.0	44	44
	68.8	87.5	27.2	44	44
Philadelphia Pittsburgh Providence Scranton Baltimore	50.0	81.2	62.4	44	44
	62.5	96.3	54.1	48	44
	43.8	90.0	105.5	44	44
	46.9	75.0	59.9	48	44
	50.0	100.0	100.0	48	44
Jacksonville Richmond Washingtou Chicago Cleveland	62.5	100.0	60.0	48	44
	50.0	81.2	62.4	48	44
	55.0	100.0	81.8	44	44
	75.0	100.0	33.3	44	44
	62.5	100.0	60.0	44	44
Detroit Indianapolis. Kansas City Milwaukee Minneapolis.	56.3	87.5	55.4	48	44
	62.5	87.5	40.0	44	44
	68.8	100.0	45.4	44	44
	56.3	81.2	44.2	44	44
	62.5	87.5	40.0	44	44
Omaha. St. Louis. Dallas Little Rock. Louisville.	68.3	100.0	46.4	44	44
	75.0	100.0	33.3	44	44
	75.0	100.0	33.3	44	44
	62.5	87.5	40.0	48¹	44
	50.0	90.0	80.0	44	44
Memphis. New Orleans. Denver Los Angeles. Portland	62.5 56.3 62.5 56.3 75.0	87.5 87.5 100.0 100.0 100.0	40.0 55.4 60.0 77.6 33.3	44 48 48 48 48 44	44 44 44 44 44
Salt Lake City. San Francisco. Seattle.	75.0	100.0	33.3	44	44
	75.0	112.5	50.0	44	44
	75.0	100.0	33.3	44	44
AverageCities	61.2	92.8 33	51.6	44.4 33	44.0 33

<sup>1 44</sup> hours June to Sept. Incl.

### STRUCTURAL IRON WORKERS.

	Hourly Rat	e in Cents.	Per cent Increase.	Hours per	Week
	1914	1919		1914	1919
Boston . Buffalo . Newark . New Haven . New York .	62.5 62.5 62.5 62.5 62.5	100.0 92.5 100.0 87.5 87.5	60.00 48.00 60.00 40.00 40.00	44 48 44 44 44	44 44 44 44 44
Philadelphia Pittsburgh Providence Scranton Atlanta	60.0 62.5 62.5 56.3 62.5	100.0 100.0 87.5 100.0 87.5	66.66 60.00 40.00 77.62 40.00	44 44 44 48 44	44 44 44 44 44
Baltimore. Richmond. Washington Chicago. Cincinnati.	56.3 56.3 62.5 68.0 62.5	100.0 87.5 100.0 100.0 92.5	77.62 55.42 60.00 47.06 48.00	44 44 44 44 44 44	44 44 44 44
Cleveland Detroit Indianapolis Kansas City Milwaukee	70.0 65.0 68.0 65.0 62.5	100.0 100.0 85.0 92.5 87.5	42.86 53.84 25.00 42.31 40.00	<sup>2</sup> 44 <sup>8</sup> 48 44 44 44	44 44 44 44
Minneapolis St. Louis Birmingham Dallas Louisville	62.5 65.0 62.5 62.5 50.0	92.5 92.5 87.5 100.0 87.5	48.00 42.38 40.00 60.00 75.00	444 44 44 44 44	44 44 44 44 44
Memphis Denver Los Angeles Portland Salt Lake City	65.0 56.3 50.0 62.5 62.5	92.5 100.0 75.0 100.0 100.0	42.31 77.62 50.00 60.00 60.00	44 44 48 44 44	44 44 44 44
San Francisco	75.0 62.5	100.0 100.0	33.33 60.00	41 44	44 44
AverageCities	62.1 32	94.2 32	51.7	44.5 32	44.0 31

 <sup>48</sup> hours week, Dec.-March Inc.
 48 hours week, Oct. to April Inc.
 44 hours week, June to Sept. Inc.
 48 hours week, Nov. to April Inc.

## CHAPTER 4. Building Trades, New York City.

The New York Building Trades Council issues a statement periodically of the prevailing rates of wages in the building trades of that city. The following table gives the rates thus reported for the principal building trades for 1914 and September 1919. All rates are based on 8 hours work per day, with a half holiday on Saturday.

### UNION WAGES IN THE PRINCIPAL BUILDING TRADES IN NEW YORK CITY, 1914 and 1919.

(Rates per day.)

		1919	Per cent increase
Asbestos workers, boiler fitters, pipe coverers, insulators	\$4.75	\$6.40	34.7
Boilermakers and iron ship builders	5.00	8.00	60.0
Bricklayers	6.00  .		
Carpenters and framers	5.00	6.50	30.0
Cement and concrete masons	5.00	7.20	44.0
Elevator constructors	5.28	6.80	28.8
Electrical workers.	4.80	6.00	25.0
Engineers, stationary	4.50	6.50	44.0
Engineers, portable hoisting	6.00	7.50	25.0
Housesmiths, bridgemen and structural iron workers	5.00	7.00	40.0
Ironworkers, bronze, metal furniture and metal trim workers	5.00	7.00	40.0
Metallic lathers	5.00	6.50	30.0
Marble cutters and setters	5.50	6.50	18.2
Mosaic workers	4.50	5.50	22.2
Machinists of all descriptions	5.00	8.00	60.0
Plate and sheet glass glaziers	3.50	6.00	71.4
Plasterers, plain and ornamental	5.50	7.50	36.4
Plumbers and gas fitters	5.50	17.00	27.3
Painters	4.00	8.00	100.0 75.0
Riggers on machinery, dynamos, boilers	4.00 4.25	7.00   5.60	75.0 31.8
Roofers, tar, felt, composition, damp and water proofers	$\frac{4.25}{2.50}$	5. <b>6</b> 0	84.0
Rockmen and excavators			20.0
Sheet metal workers, coppersmiths, tinsmiths, metal workers	5.00	6.00	20.0 30.0
Slate and tile roofers	5.00	6.50	27.3
Steam, hot water and general pipe fitters	5.50	7.00 6.50	18.2
Tile layers		5.00	33.3
Tunnel and subway constructors	3.75 4.00	8.00	100.0
Varnishers		7.00	100.0

<sup>&</sup>lt;sup>1</sup>Will be \$8.00 per day beginning January 1, 1920.

#### CHAPTER 5.

### BUILDING TRADES, COMMON LABOR.

The following table presents the union wage rates of hod carriers, building and common laborers in 31 cities for the year 1914 and 1919. The data were compiled from the scales of the International Hod Carriers, Building and Common Laborers' Union of America. The rates shown for 1919 were as given in the published scales of October 1918, and in most cases still in effect for a considerable part of 1919, altho changes may have occurred before the present time.

UNION RATES OF PAY PER HOUR (IN CENTS) OF HOD CARRIERS, BUILDING AND COMMON LABORERS, IN VARIOUS CITIES,  $1914~\rm and~1919.$ 

	Mason t	ending.	Plaster	tending.	Cond	erete.	Excav	a'ing.
City.	1914	1919	1914	1919	1914	1919	1914	1919
Albany, N Y. Asbury Park, N. J. Augusta, Me. Binghamton, N. Y. Lawrence, Mass Syracuse, N. Y. Mt. Vernon, N. Y. Newburgh, N. Y. Oneida, N. Y. Portland, Me. Scranton, Pa. Washington, D. C. Cleveland, Ohio. Coffeyville, Kan Dayton, Ohio. Decatur, Ill. E. St. Louis, Ill. Kansas City, Mo. Lafayette, Ind. Ottawa, Ill. Racine, Wis. Sheboygan, Wis. Streator, Ill. Covington, Ky. Memphis, Tenn Helena, Mont. Los Angeles, Cal. Portland, Ore. Reno, Nev. San Jose, Cal. Seattle, Wash.	35.0 34.3 30.0 31.3 30.0 28.0 37.5 35.0 27.5 35.0 25.0 40.0 45.0 37.5 32.5 40.0 34.4 42.0 37.5 32.5 40.0 31.3 37.5 32.5 40.0 31.3 37.5 32.5 40.0 37.5 37.5 40.0 37.5 37.5 40.0 37.5 37.5 40.0 37.5 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40	45.0 42.5 45.0 45.0 50.0 50.0 50.0 50.0 55.0 65.0 65.0 47.5 47.0 69.9 47.5 45.0 45.0 47.5 45.0 45.0 45.0 45.0 50.0 60.0	35.0 34.3 30.0 37.5 28.0 37.5 35.0 37.5 41.0 30.0 37.5 40.0 37.5 32.5 40.0 37.5 32.5 40.0 37.5 32.5 40.0 37.5 32.5 40.0 37.5 32.0 37.5 40.0 37.5 50.0 37.5 50.0	45.0 42.5 45.0 60.0 70.0 47.0 50.0 50.0 55.0 65.0 65.0 45.0 45.0 45.0 45.0 45.0 45.0 50.0 55.0 55.0 65.0 55.0 65.0 55.0 65.0	35.0 34.3 28.5 28.5 28.0 37.5 35.0 25.0 25.0 30.0 30.0 30.0 30.0 31.5 35.0 30.0 31.5 35.0 37.5 37.5	45.0 42.5 45.0 47.0 50.0 50.0 50.0 50.0 47.0 50.0 47.0 50.0 47.0	34.3 25.0 25.0 28.0 27.5 25.0 25.0 25.0 25.0 25.0 30.0 31.3 31.5	45.0 42.5 45.0 50.0 50.0 50.0 50.0 45.0 45.0 55.0 45.0 45.0 45.0 75.0 43.8 43.8
Average for all cities. Per cent increase		53.6 45.7	40.5	53.9 33.1	32.5	50.7 56.0	30.9	49.7 60.8

<sup>47.5</sup> to 50.0 cents.

<sup>250.0</sup> to 75.0 cents. 370.0 to 75.0 cents.

<sup>462.5</sup> to 56.3 cents.

## CHAPTER 6. COAL MINING.

Anthracite and bituminous mining differ considerably in methods of work, but the two branches of the industry are not very dissimilar as regards occupations, the distribution of the labor force and the systems of wage payment. In both the employees fall into two general classes: (1) The miners proper who do the actual digging and cutting of the coal and who are paid, except when working under special conditions, on a tonnage basis; and (2) a large number of accessory occupations, such as hoisting and pumping engineers, machinists, carpenters and timbermen, who are almost always paid on a time basis.

### (1) ANTHRACITE COAL.

The existing wage rates for all classes of anthracite mine employees are directly based upon the award of the Anthracite Coal Strike Commission of 1903. The increases granted by that commission were in the form of flat percentage increases. No basic rates were fixed and the existing differentials between companies were maintained.

This system of wage advances has continued until the present. A series of agreements subsequent to 1903 have either continued the existing agreements or provided for certain fixed increases, usually in percentage form. The last of these series of increases resulted from an

order of the Fuel Administration in the autumn of 1918.

In the conferences of the National Labor Adjusting Agencies, on whose recommendation this order was based, a memorandum of current wages and earnings of principal occupations was submitted as fairly typical of existing conditions. The table below gives the rates for 1916 as contained in this memorandum, the increases resulting from the order of the Fuel Administration, and a computation of the probable rates existing in 1914 as interpreted from the terms of the agreement of May 6, 1916. As the existing rates differed between companies the memorandum gave simply high and low rates, and this is necessarily followed in the table here presented.

The mines operate on a basic 8 hour day for practically all time workers. The contract miners decide in considerable degree the number of hours they care to work but 8 hours per day is the customary maxi-

mum.

### WAGES AND EARNINGS IN THE ANTHRACITE COAL INDUSTRY, 1914 to 1919.

(Compiled from wage agreements and memorandum submitted to the Conference of National Labor Adjusting Agencies, November, 1918.)

Occupations.	19	1914 (A		1916 (Agreement May 6, 1916.)		1919 (In effect since Oct. 1, 1918.)		Per cent of increase 1919 over 1914.	
•	Low.	High.	Low.	High.	Low.	High.	Low.	High.	
		<del></del>		Hourly	rates.				
OUTSIDE LABOR Blacksmiths Carpenters Shaft engineers Firemen Machinery repairmen Laborers	\$0.277 .277 .350 .20 .26 .169	\$0.303 .303 .390 .242 .278 .203	\$0.320 .320 .360 .230 .300 .195	\$0.350 .350 .400 .280 .320 .235	\$0.57 .57 .61 .48 .55 .42	\$0.60 .60 .65 .53 .57 .46	105.8 105.8 74.3 140.0 111.5 148.5	98.0 98.0 66.7 119.0 105.0 126.6	
INSIDE LABOR Company miners Inside laborers	.277 .225	.303 .251	.32 .26	.35 .29	.57 .51	.60 .64	105.8 126.7	98. <b>0</b> 155. <b>0</b>	
Contract laborers Consideration miners Contract miners	1.94 2.99 5.26	3.00 3.36 5.26	2.08 3.20 3.63	Daily 3.20 3.60 5.63	rates. 3.70 5.00 6.63	5.16 5.50 6.63	90.7 67.2 26.0	72.0 63.7 26.0	

<sup>&</sup>lt;sup>1</sup>Average per start.

### (2) BITUMINOUS MINING.

Bituminous coal is mined in about one-half of the States of the Union, but almost three-quarters of the tonnage in recent years has been produced in western Pennsylvania, Ohio, Illinois, Indiana, and West Virginia. With the exception of West Virginia, the mine workers of these states are strongly organized and for a number of years have been working under fixed agreements, usually biennial, with the mine operators. Instead, however, of a single agreement for the industry, such as exists in anthracite mining, there are a number of district agreements.

These district agreements differ in their wage scales, but the differences are based on differences in the physical difficulties of mining and the wage changes have usually been more or less uniform in the several districts. Thus for the four States above mentioned—known as the central competitive field—a single wage agreement, which uses the Hocking Valley District of Ohio as a basing district, constitutes the basic agreement for all four States. Therefore, the wage changes in the Hocking Valley District may be taken as representative of the trend of wage rates in this whole field and, in a general way, for practically all bituminous mining in the country. The table below shows, for this district and also for the Pittsburgh District, the tonnage rates for miners and the daily wage rates of several important occupations which are on a time basis, for 1914 and 1919. Since 1914, practically all wage rates in the central competitive field have been computed on the basis of minerun coal.

The rates now in effect (September 1919) were last modified by the so-called Washington Agreement of October 6, 1917. This was drawn to run not to exceed two years from April 1, 1918. In 1918 the question of further increases was discussed but was denied by the Fuel Administration on October 26, 1918. (See Monthly Labor Review of United States Bureau of Labor Statistics for November 1918, for an account of the discussion.)

The 8-hour day prevails in the industry.

RATES OF WAGES OF MINERS AND DAY LABORERS, BITUMINOUS COAL MINING MINE-RUN BASIS, 1914 and 1919.

Occupation.	1914	1919	Per cent of increase.
HOCKING VALLEY DISTRICT.  Mining, rates per ton. Pick mining Machine mining—chain machines. Cutting, drilling and loading-in rooms	<b>\$</b> 0.676	\$0.8764 .70	30 49
Inside labor, rates per day. Tracklayers, cagers, drivers, trip riders, water haulers, machine haulers, timbermen, wiremen and motormen	2.84	5.00	76
Tracklayers' helpers	2.62	4.75	81
Trappers	1.32	2.65	101
Pipemen	2.78	4.92	77
Outside labor, rates per day. First blacksmiths Second blacksmiths and carpenters. Blacksmiths' helpers, dumpers and trimmers. Greasers and couplers.	3.12	5.27	69
	2.81	4.95	76
	2.62	4.75	81
	1.56	3.64	133
PITTSBURGH DISTRICT.  Mining, rates per ton. Pick mining: Thin vein. Thick vein. Machine mining—chain machines: Cutting and loading-in rooms. Thin vein. Thick vein.	\$0.6464	\$0.8764	36
	.5611	.7911	41
	.4461	.70	57
	.3892	.6431	65
Inside labor, rates per day. Tracklayers, drivers, cagers, trip rope riders water haulers and timbermen. Tracklayers' helpers. Trappers. Pipemen.	2.84	5.00	76
	2.62	4.75	81
	1.25	2.65	112
	2.78	4.92	77

### CHAPTER 7.

DREDGE AND TUGBOAT EMPLOYEES, GREAT LAKES, 1914 TO 1919

The present rates of wages of the dredge and tugboat employees of the Great Lakes are governed by an award of the National Adjustment Commission of United States Shipping Board, effective April 1, 1919, and operative until March 31, 1920.

The wage rates of these employees in river and harbor improvements, submarine excavation, breakwater work, etc., are shown in the attached table. The working day consisted of twelve working hours in 1914, but was reduced to an eight and ten hour basis in 1919.

The data are summarized from the Monthly Labor Review of the United States Bureau of Labor Statistics for June 1919.

RATE OF WAGES PER HOUR (INCLUDING BOARD) OFDREDGE AND TUG BOAT EMPLOYEES OF THE GREAT LAKES.

(Compiled from Monthly Labor Review of the U. S. Bureau of Labor Statistics, June, 1919.)

Occupation.	1914-1916 (12-hr. day.)	1919 (8-hr. day.)	Per cent increase.
Dipper dredges. First engineer. Second engineer Craneman Second craneman	51.4 40.3 37.2 34.2	89.6 72.9 68.6	74.3 80.9 84.4
Hydraulic dredge, 16 in. and under. Engineer Next in rank	46.0 37.5	81.3 68.6	76.7 83.0
Hydraulic dredge, 17 in. and over. Engineer Next in rank	51.4 40.3	89.6 72.9	74.3 80.9
Dredge workers. Oiler Fireman. Deckhand. Watchman. Scowman.	28.0 25.0 28.0 25.0	56.3 56.3 51.7 56.3 51.7 (10-hr. day.)	101.1 101.1 106.8 101.1 106.8
Licensed tugmen. Captain (waiting on dredge), Chicago Captain (other tugs), Chicago and South Chicago Captain, all other ports. Engineer, Chicago and South Chicago. Engineer, all other ports. Second engineer and mate	55.5 50.0 43.0 43.0 40.3	85.0 78.3 71.7 70.0 68.3	53.2 56.6 66.7 62.8 69.5
Tug fireman and lineman. Chicago and South Chicago Cleveland. All other ports		52.5 50.8 49.2	89.5 92.4 96.8

### CHAPTER 8.

### FARM LABOR.

The wages of farm labor in the various States of the United States are collected and published annually by the United States Department of Agriculture. The latest available data are for 1918. They are shown in the two following tables together with the data for 1914. The first table is a summary for the whole country; the second table gives the monthly wage rates by States.

WAGES OF HIRED FARM LABOR: MONTHLY AND DAILY, WITHOUT BOARD, 1914 and 1918, ALL STATES COMBINED

(Reports of the U.S. Department of Agriculture.)

	1914	1918	Per cent increase.
By the month (without board).  Day labor at harvest.  Day labor not harvest.	\$29.88	\$47.07	57.5
	1.91	3.22	68.6
	1.45	2.63	81.4

#### WAGES OF HIRED FARM LABOR PER MONTH, WITHOUT BOARD, BY STATES, 1914 and 1918. (Reports of the U.S. Department of Agriculture.)

1914 1918 Per cent States increase. 58.7 66.7 Alabama \$18.90 \$30.00  $\frac{48.00}{24.00}$  $80.00 \\
40.50$ Arizona..... Arkansas 68.8 California Colorado 50.00 78.0056.0 44.60 73.50 64.8 63.00 66.7 Connecticut 37.80Delaware Florida Georgia Idaho 26.50 24.50 18.00 51.00  $\frac{46.00}{38.00}$  $\frac{32.60}{32.60}$ 73.6 55.1 81.186.25 69.1Illinois. Indiana.  $\frac{33.00}{30.10}$ 52.00 47.00 64.00 56.40 57.6 56.1 60.0 Iowa..... 40.00 Kansas... Kentucky... 35.10 60.7 24.2041.00 69.4 Louisiana Maine Maryland Massachusetts Michigan 20.70 37.20 26.00 73.4 35.9065.5076.173.1 62.2 51.3  $\begin{array}{r} 45.00 \\ 66.50 \\ 52.50 \end{array}$ 41.00 34.70 53.7 67.6 62.70 Mississippi Missouri Montana Nebraska  $\frac{18.20}{29.20}$ 30.50 45.00 83.00 67.00  $\frac{54.1}{57.2}$ 52.8039.7068.8 Nevada.
New Hampshire.
New Jersey.
New Mexico 56.00 85.00 51.8 38.50 34.00 36.60 35.70 63.50 61.00 59.00 64.9 79.4 61.2 New York..... 56.50 58.3 North Carolina.... 37.50 72.00 49.70 50.0021.90 North Dakota Ohio Oklahoma Oregon 45.1059.6 31.80 56.3 28.8073.646.00 76.0065.266.7 31.2052.00 Rhode Island. South Carolina. 60.00 28.00 77.50 35.70  $\frac{38.40}{16.50}$ 56.3 69.7 South Dakota Tennessec 43.50 78.221.1069.2 Texas..... 27.0043.00 59.3 Utah Vermont Virginia 50.00 37.50 22.80  $84.00 \\ 62.00$ 68.0 65.339.50 73.2 Washington 48.4085.0075.6West Virginia....  $54.50 \\ 60.20 \\ 83.00$ 30.00 81.7 50.9 Wisconsin.... 39.90 Wyoming.... 50.00 66.0 Average all States..... 29.88 47.07 57.5 GEOGRAPHICAL DIVISIONS

34.71 21.50 33.55 37.13

23.19

48.17

57.24 37.44 51.91 49.32

38.57

78.64

64.9

74.1 54.7 32.8 66.3 63.3

North Atlantic...South Atlantic

North Atlantic
South Atlantic
North Central (East Mississippi)
North Central (West Mississippi)
South Central
Far Western

### CHAPTER 9.

### GARMENT TRADES, NEW YORK CITY.

Active wage movements have occurred in the garment industries during 1917 and 1918, but as yet there is comparatively little precise information available as to rates of wages and earnings in the industry. The weekly wage rates in the dress and waist industry for New York City, for 1913, 1916, and 1919, are shown in the following table. The data presented are very valuable as wages in the dress and waist industry may be taken as indicating the wage trend in the garment trades generally, and New York City is the principal center of these trades. The table, as will be noted, deals solely with timeworkers.

Under the present working agreement the weekly hours of labor are

limited to 44, with double rate for overtime.

WEEKLY RATES OF WAGES IN DRESS AND WAIST INDUSTRY ON SPECIFIED DATES. NEW YORK CITY.

(Monthly Labor Review of the U. S., Bureau of Labor Statistics, June, 1919, p. 5.)

Occupations.	Ra	ates in effe	Per cent increase.	
·	1913	1916	Apr., 1919.	1919 over 1916.
WEEK WORKERS.				
Pressers (on woolens)	\$20.00	\$23.00	\$33.00	43.5
Grade A, first year Grade B, second year Grade C, third year. Grade D, fourth year, but not full-fledged Grade F, fourth year full-fledged	6.00 12.00 18.00 (1) 25.00 (1)	6.00 12.00 18.00 21.00 25.00 27.50	12.00 18.50 27.00 30.00 235.00 38.00	100.0 54.2 50.0 42.9 40.0 38.2
Examiners Drapers Joiners Finishers Sample makers Ironers, male Ironers, female	$\begin{array}{c c} 12.00 \\ 8.00 \end{array}$	11.50 15.00 13.00 9.50 15.00 16.50 14.00	17.50 23.00 19.00 15.50 22.50 24.50 20.50	52.2 53.3 46.2 63.2 50.0 48.5 46.4
Cleaners, girls: Under 16, first year. Under 16, second year. 16 and over, first year. 16 and over, second year.	6.00 6.00 (³)	6.00 7.00 7.00 8.50	(*) (*) 11.50 13.00	64.3 52.9

No such grade.
338.00 per week if required to do pattern grading.
Not specified.

### CHAPTER 10.

### HARBOR EMPLOYEES, NEW YORK.

The monthly wage rates of employees on the tugs, ferry boats, barges and other crafts in the commerce of New York Harbor are given in the following table for July 1914 and July 1919. The range of rates between high and low are shown as no averages can very well be drawn from the data available.

#### MONTHLY WAGE RATES OF NEW YORK HARBOR EMPLOYEES, 1914 and 1919.1

(Compiled from data in Bureau of Labor Statistics and in office of the Executive Secretary, Harbor Wage Adjustment Board, New York.)

	July, 1914.		July,	1919.3	Per cent increase.	
Occupation. <sup>2</sup>	Low.	High.	Low.	High.	Low.	High.
TUGS, STEAM LIGHTERS, AND OTHER SELF PROPELLED BOATS Captains. Mates and pilots. Engineers. Oilers. Firemen. Deck-hands. Cooks.	\$115.00 75.00 100.00 60.00 55.00 50.00 50.00	\$165.00 115.00 140.00 75.00 75.00 70.00 65.00	\$174.50 110.00 164.50 99.50 99.50 99.50 99.50	\$244.50 199.50 209.50 115.00 110.00 105.00	51.74 46.67 64.50 65.83 80.91 99.00 99.00	48.18 73.48 49.64 53.33 53.33 57.14 61.54
FERRY BOATS (4) Captains or pilots. Wheelsmen. Engineers. Oilers. Firemen. Deck-hands. COVERED BARGES AND LIGHTERS	125.00 60.00 100.00 55.00 40.00 50.00	160.00 70.00 150.00 95.00 95.00 66.00	175.00 95.00 165.00 95.00 95.00 85.00	190.00 110.00 180.00 120.00 115.00 105.00	40.00 58.33 65.00 72.73 137.50 70.00	18.75 57.14 20.00 26.32 21.05 59.09
Captains	45.00 63.60	$80.25 \\ 80.25$	$112.65 \\ 125.65$	130.00 140.00	150.33 97.56	61.99 74.45
CANAL BOATS, GRAIN BOATS, SCOWS AND DUMPERS Captains	40.00 55.00	60.00 65.00	100.00	110.00	150.00 90.91	83.33 61.54

<sup>&</sup>lt;sup>1</sup>Includes board where board is allowed in addition to wages.

Occupations as shown constitute all occupations represented in the specified crafts.

Agreement with Railroad Administration and with private boat owners.

Ferry boat scale is least satisfactory in that awards were not complied with and city ferries are included. Moreover, in 1919 no new agreement was made with private ferries and rates represent railroad ferries only.

### CHAPTER 11.

### IRON AND STEEL INDUSTRY.

Detailed information regarding earnings and hours of labor in the iron and steel industry over a series of years are published in the Monthly Labor Review of the United States Bureau of Labor Statistics for October 1919. The contents of that study are summarized in the tables below, which give, for 1914 and 1919, by principal departments, the average hourly earnings and average full time hours per week for each of the principal occupations. No separation by geographical districts is made except in the case of common labor, for which the data are shown by four districts—Eastern, Pittsburgh, Great Lakes and Middle Western and Southern, and also by all districts combined.

### HOURLY EARNINGS (IN CENTS) AND FULL TIME HOURS PER WEEK IN IRON AND STEEL INDUSTRY, 1914 and 1919.

(Compiled from Bulletin and Monthly Labor Review of U. S. Bureau of Labor Statistics).

BLAST FURNACES.

	Average earnings per hour		Per cent Increase.	Average full time hours per week.		
Occupation.	1914	1919		1914		1919
Stockers. Bottom fillers. Top fillers. Larrymen. Larrymens' helpers. Skip operators. Blowers. Blowing engineers. Keepers. Keepers' helpers. Iron handlers and loaders. Pig machine men. Cindermen. Laborers, all districts. Eastern. Pittsburgh. Great Lakes and Middle West. Southern.	18.8 17.4 21.0 21.5 18.7 21.4 33.3 26.2 23.3 18.5 21.8 19.2 17.6 17.7 15.3 19.2 19.0 13.7	46.4 43.6 46.8 51.6 49.2 53.6 75.0 62.4 47.0 36.1 47.3 45.5 42.3 46.5 33.0	146.81 150.57 122.86 140.00 163.10 150.47 125.23 138.17 139.06 154.05 65.60 147.92 168.75 157.06 176.47 151.56 144.74 140.87	74.9 83.3 80.1 78.6 78.6 79.5 80.7 79.3 79.3 79.8 80.6 73.8 79.2 278.3 70.8 68.7 73.1 68.9		79.2 82.2 76.7 79.4 78.5 79.5 79.5 79.5 73.2 79.9 77.2 78.9 76.7

### BESSEMER CONVERTERS.

Occupation.	Average e per hou		Per cent Increase.	Average full timo hours per week.	
	1914	1919		1914	1919
Stockers	35.1	63.6	81.20	55.5	64.0
Cupola melters	$\frac{39.0}{28.6}$	$\frac{101.3}{78.8}$	159.74 $175.52$	59.5 56.9	59.4 58.9
Cupola toppers	54.5	126.7	132.48	64.1	63.1
Regulators (1st)	32.8	84.2	156.71	63.8	68.2
Regulators (2nd)	28.9	73.3	153.63	66.5	64.4
Vesselmen	49.9	110.0	120.44	55.6	60.3
Vesselmens' helpers	34.2	85.7	150.58	54.3	61.1
Cinder pitmen	21.3	58.1	172.77	71.9	71.0
Bottom makers	29.3	73.0	149.15	73.0	64.8
Bottom helpers	22.5	59.5	164.44	72.4	70.3
Ladle liners	30.4	75.6	148.68	68.6	69.7
Ladle helpers	$\begin{array}{c c} 22.2 \\ 25.1 \end{array}$	55.1	148.20	$\frac{69.1}{70.2}$	71.6 70.6
Stopper makers	37.6	$\frac{62.8}{109.8}$	150.20 $192.02$	50.7	59.8
Stopper setters	44.4	108.2	143.69	52.5	58.5
Mold cappers	26.0	67.1	158.08	60.8	61.1
Ingot strippers	31.3	73.6	135.14	66.0	64.2
Laborers, all districts	19.3	48.9	153.37	74.0	71.1
Pittsburgh	19.3	48.5	151.30	74.7	74.2
Great Lakes and Middle West	19.1	50.6	164.92	71.8	58.1

### OPEN HEARTH.

Occupation.	Average e per ho		Per cent Increase.	Average full time hours per week.	
	1914	1919		1914	1919
Stokers. Stock Cranemen Charging machine operators Melters' helpers (1st) Melters' helpers (2nd).	20.4 23.7 30.7 42.0 27.8 20.7	50.1 57.4 76.3 96.9 69.5	125.59 142.19 148.53 130.71 150.00 16 <b>3</b> .77	77.0 78.4 77.4 75.6 74.7	74.9 72.0 73.0 73.0 72.1 73.4
Melters' helpers (3rd). Stopper setters. Steel Pourer Mold coppers. Ladle Cranenien.	28.7 33.9 23.2 30.5	66.3 78.1 59.2 73.6	131.01 130.38 155.17 141.31	75.0 76.4 77.7 76.5	71.4 70.4 73.8 71.9
Ingot strippers. Laborers, all districts Eastern Pittsburgh Great Lakes and Middle West	29.2 18.5 16.9 18.8 19.1	72.9 46.4 40.8 47.3 48.6	149.66 150.81 141.42 151.60 154.45	75.8 69.5 67.2 71.3 69.5	66.6 72.7 67.5 78.5 76.8
Southern. Pacific Coast	16.9	38.8 49.0	129.59	64.3	65.0 56.0

### BLOOMING MILLS.

Occupation.	Average e per hour		Per cent Increase.	Average full time hours per week.	
	1914	1919		1914	1919
Pit Cranemen	35.7	81.2	127.45	66.6	66.1
Heaters	54.2	117.7	117.16	69.3	67.5
Heaters helpers	35.5	80.3	126.20	62.4	64.5
Bottom makers	37.0	83.3	125.14	68.6	64.9
Bottom makers helpers	27.3	64.5	136.26	69.8	67.4
Roll Engineers	44.7	93.4	108.95	65.6	62.6
Rollers	68.4	135.3	97.81	63.6	60.4
Manipulators	39.4 31.4	$\frac{92.5}{64.8}$	134.77	62.4	61.1
Shearmen	34.5	$\frac{04.8}{79.0}$	106.37 $128.99$	63.6	62.2 <b>63</b> .1
Shearmen helpers	25.6	$\frac{13.0}{59.7}$	133.20	68.4	66.6
Laborers, all districts	18.7	46.9	150.80	71.7	69.6
Eastern.	17.2	43.7	154.07	61.3	70.2
Pittsburgh	19.0	48.9	154.69	72.0	71.9
Great Lakes and Middle West	19.0	48.0	152.63	72.0	65.7
Southern	14.8	38.6	160.81	74.1	76.6

#### PLATE MILLS.

Occupation.	Average e per he		Per cent Increase.	Average full time hours per week.	
	1914	1919		1914	1919
Charging Crane and Charging machine Operators.  Heaters Heaters helpers Roll engineers. Rollers. Screw-men Table operators. Hook-men. Roll hands (other). Shearmen Shearmen helpers. Laborers, all districts Eastern Pittsburgh Great Lakes and Middle West.	30.6 52.9 24.7 30.7 70.3 43.4 31.7 29.4 25.7 40.6 24.3 17.4 15.1 18.8 19.0	78.6 123.9 59.9 75.3 129.1 112.0 83.3 81.1 66.7 98.2 63.0 44.9 36.8 48.4 46.9	156.86 134.21 142.51 145.28 83.64 158.06 162.78 175.85 159.53 141.87 159.26 158.00 143.71 157.45	70.2 70.5 67.7 70.2 68.0 68.7 67.6 68.2 67.4 68.4 68.2 67.6 61.6 71.5	71.1 70.6 71.1 72.1 70.5 71.0 70.6 71.2 71.1 70.7 71.9 68.8 65.8 70.0

#### SHEET MILLS.

Occupation.	Average 1 Per H		Per cent Increase.	Average Full Time hours per Week	
	1914	1919		1914	1919
Pair heaters Rollers Rollers Roughers Catchers Matchers Doublers Sheet heaters Sheet heaters Sheet heaters helpers Shearmen Shearmen helpers Openers (male) Laborers, all districts Pittsburgh Great Lakes and Middle West	54.0 143.1 64.8 63.6 48.4 46.2 96.6 48.5 86.0 28.2 28.2 18.8 19.2 18.0	105.3 257.5 130.7 118.2 98.0 92.8 187.8 95.5 153.4 70.5 68.5 46.0 45.5	95.00 79.94 101.69 85.84 102.48 100.87 94.40 96.91 78.37 150.00 142.91 144.68 136.98	42.8 42.8 42.8 42.8 42.8 42.8 42.8 42.8	43.6 43.7 42.8 43.7 43.6 43.7 43.5 46.6 44.0 66.5 70.6

### COMMON LABORERS, BY DISTRICTS AND BY DEPARTMENTS.

District and year.	All depart- ments.	Blast furnaces.	Bessemer Con- verters.	Open- hearth furnaces.	Bloom- ing mills.	Plate mills.	Sheet mills.
Eastern: 1914	16.1 40.9	15.3 42.3		16.9 40.8	17.2 43.7	15.1 36.8	
Pittsburgh: 1914 1919	$\substack{19.1\\48.3}$	19.2 48.3	19.3 48.5	18.8 47.3	19.2 48.9	18.8 48.4	19.2 45.5
Great Lakes and Middle	19.0 47.9	19.0 46.5	19.1 50. <b>6</b>	19.1 48.6	19.0 48.0	19.0 46.9	18.0 46.6
Southern: 1914 1919	15.1 <b>36</b> .8	13.7 · 33.0		16.9 38.8	14.8 38.6		
Total <sup>1</sup> : 1914 1919	17.3 43.5	16.8 42.5	19.2 49.6	17.9 43.9	17.6 44.8	17.6 44.7	18.6 46.1

<sup>&</sup>lt;sup>1</sup>Unweighted average.

#### CHAPTER 12.

#### LONGSHOREMEN.

The hourly rates of wages of longshoremen in 14 principal American ports, in July 1914 and July 1919, are shown in the following table. Longshoremen in deepwater traffic have different rates from those in coastwise traffic and are therefore shown separately.

Under the present agreements longshoremen are working on the basic

8-hour day and 44-hour week.

HOURLY RATES OF WAGES OF LONGSHOREMEN (DEEPWATER) IN FOURTEEN PRINCIPAL AMERICAN PORTS, July, 1914, and July, 1919.

(Report of the Director of the Marine and Dock Industrial Relations Division, U. S. Shipping Board Washington, 1919.)

Port and district.	Rate of wag	Per cent	
	1914	1919	increase.
Boston	\$0.33 .33 .30 .25 .25	\$0.65 .65 .65 .65 .65	97.0 97.0 116.7 160.0 160.0
North Atlantic average	.292	.65	122.6
CharlestonSavannah	.20 .25	.50 .50	150.0 100.0
South Atlantic average	.225	.50	122.2
Mobile New Orleans Galveston	.30 .40 .40	.65 .65 .65	$116.7 \\ 62.5 \\ 62.5$
Gulf Coast average	.367	.65	77.1
San Diego. San Francisco. Portland. Seattle.	50 55 55 45	.80 .80 .80	60.0 45.5 45.5 77.8
Pacific Coast average	.513	.80	55.9

# HOURLY RATES OF WAGES OF LONGSHOREMEN (COASTWISE) AT FOURTEEN PRINCIPAL AMERICAN PORTS, July, 1914, and July, 1919.

(Report of the Director of the Marine and Dock Industrial Relations Division, U. S. Shipping Board, Washington, 1919.)

Port or district.	Rate of wage per hour i	Per cent	
1	1914	1919	increase.
Boston. New York Philadelphia. Baltimore Norfolk		\$0.65 .65 .65 .65 .65	116.7 116.7 188.9 225.0 195.5
North Atlantic average	. 249	.65	161.0
Charleston Savannah Jacksonville	.25 $.22$ $.20$	.40 .40 .40	60.0 81.8 100.0
South Atlantic average	.223	.40	79.4
Mobile New Orleans	.30 .30 .30	.45 .45 .45	50.0 60.0 50.0
Gulf Coast average	.30	.45	53.3
San Diego. San Francisco. Portland. Seattle	.475 .50 .50 .45	.80 .80 .80 .70	68.4 60.0 60.0 55.6
Paciffic Coast average	.481	.775	61.0

## CHAPTER 13. METAL MINING.

The only information available regarding the wages of metal miners is that furnished by the report in the latter part of 1918 of the committee appointed by the Secretary of Interior to study the gold situation. This report contains interesting data on wages in gold, silver and copper mining in the Western States, for a series of years up to September 1918. These data, as printed in the Monthly Labor Review of the United States Bureau of Labor Statistics for April 1919, are summarized in the table below:

RATES OF WAGES PER DAY IN METAL MINING, September, 1914 and 1918.

(Compiled from Monthly Review of U. S. Bureau of Labor Statistics, April, 1919.)

	Machine men.		
	Sept., 1914.	Sept., 1918.	Per cent increase.
Copper mining:			
Montana— Butte District	\$4.00	\$5,25 <b>-\$</b> 5,75	50-64
Arizona—	42.00	CO.20 <b>CO</b> .70	00-01
Bisbee Phelps Dodge Corporation	3.60	6.10	69
Verde		5.15- 5.90	47-57
Utah.			
Bingham-Utah Copper Co	3.25	4.75- 5.25	46-62
General Average		4.75- 5.25	46-62
Nevada.			
Ely District		5.75	
California.			
All Districts	3.25	4.00- 4.50	23-38
Copper and gold mining:			
Washington	3.50	5.00	43
Silver and gold mining:			'
Nevada.	4.50		
Tonopah		5.50	22
	4.00	5.00	25
Gold mining: Nevada.			1
Goldfield	4.00	4.00	(2)
Montana.	4.00	4.00	(1)
Kendall, Barnes, King Development Co	3.50	4.00- 4.50	14-29
California.	3.00	2.00 . 4.00	19-23
Mother Lode and Grass Valley	2 75- 3 00	3.50- 4.00	27-33
MORE EVEN CHEST TERES.	20	3.00 4.00	27-00
•		1	r

<sup>&</sup>lt;sup>1</sup>No change.

	Hand miners.		
	Sept., 1914.	Sept., 1918.	Per cent increase.
Copper mining:			
Arizona. Verde	\$3.25 <b>-\$</b> 3.50	\$5.15-\$5.90	58 <b>-69</b>
Utah. Bingham-Utah Copper Co General Average	2.75- 3.00 3.00- 3 25	4.50- 5.00 5.00	64-67 67-54
All Districts		3.75- 4.25	• • • • • • • • •
Copper and gold mining: Washington	3.50	5.00	43
Nevada. Tonopah. Comstock.	4.50 4.00	5.50 5.00	22 25
Gold mining: Nevada. Goldfield	4.00	4.00	(1)

<sup>1</sup>No change.

	Muckers.		
	Sept., 1914.	Sept., 1918.	Per cent increase.
Copper mining:			1
Montana. Butte District. Arizona.	<b>\$3</b> .50	\$5.25 <b>-\$</b> 5.75	50-64
Bisbee Phelps Dodge Corporation	2.75- 3.75 2.75- 3.00	5.25 5.15- 5.90	40 87–97
Utah. Bingham-Utah Copper Co	2.75 3.00	4.25- 4.75 4.75	55-73 58
California. All Districts	2.50	3.50- 4.00	40-60
Copper and gold mining: Washington	3.00	4.50	50
Nevada. Tonopah. Comstock. Gold mining:		5.00 5.00	25 25
Nevada. Goldfield	<b>3.7</b> 5	3.75	(1)
Montana. Kendall, Barnes, King Development Co	3,50	4.00- 4.50	14-29
California. , Mother Lode and Grass Valley	2.25- 2.50	3.00- 3.50	33-40

No change.

#### CHAPTER 14.

#### METAL TRADES IN RAILROAD SHOPS.

An order of the Director General of Railroads of June 1918, (retroactive to Jan. 1918) established a minimum rate of 68 cents an hour for machinists, blacksmiths, boilermakers and practically all the other skilled trades in the railroad shops, and a minimum rate of 45 cents for helpers. Under the operation of the supplementary order recently announced these rates are raised approximately 4 cents an hour. The metal trades in the railroad shops are therefore now receiving a minimum wage rate of 72 cents an hour for journeyman and 49 cents for helpers. In the following table these rates are given for machinists, blacksmiths and boilermakers in comparison with the rates existing in May 1914 and May 1918. The data for these earlier years are compiled from the bulletins of the U. S. Bureau of Labor Statistics and represent averages for a large group of cities.

HOURLY WAGE RATES AND FULL TIME HOURS PER WEEK OF CERTAIN METAL TRADES IN RAILROAD SHOPS MAY 1914, MAY 1918 AND SEPT. 1919.

(Data for 1914 and 1918 from publications of U.S. Bureau of Labor Statistics).

	Years.	Rate per hour (cents)		Full time hours per week
Machinists	1914 1918 1919	38.7 68.0 72.0	86.0	53.7 48.0 48.0
Blacksmiths	1914 1918 1919	40.3 68.0 72.0	78.7	52.5 48.0 48.0
Boilermakers	1914 1918 1919	39.0 68.1 72.0	84.6	54.7 48.0 48.0

## CHAPTER 15. NAVY PAY TABLE.

As compiled from the Navy Register, 1919, issued by the Navy Department, the rates of pay of the enlisted personnel of the Navy are shown in the table below. The rates of 1914, as fixed by the act of May 13, 1908, represent merely ten per cent increases over the scale previously in effect. The rates fixed in 1917 by the act of May 22 of that year consist of increases graduated according to rates in effect at that time and will continue operative for at least six months after the termination of the war. The rates are minimum rates, and do not show increases due to re-enlistment. Enlisted men in the Navy receive food, housing and clothing in addition to their pay.

MONTHLY RATES OF PAY OF PRINCIPAL GRADES AND OCCUPATIONS IN THE NAVY (From the Navy Register, January 1, 1919, pp. 1008-1011)

Grade or occupation.	1914 (Act May13,1908).	1919 (Act May22,1917).	Per cent increase.
Seaman Branch.			
Chief Petty Officers:	e71 50	\$77.50	
Chief masters-at arms	\$71.50 66.00	72.00	8.4 9.1
Chief mates and quartermasters	55.00	61.00	10.9
Turret captains		61.00	10.9
Masters-at arms, mates, etc Petty Officers, 2d class:		52.00	18.2
Masters-at arms, mates, quatermasters Petty Officers, 3d class	38.50 38.50	46.50 46.50	20.8 20.8
Seamen, 1st class:			
Seaman, gunners	$\frac{28.00}{26.40}$	$\frac{34.00}{34.40}$	$\frac{21.4}{30.3}$
Seamen, 2d class: Messmen branch			
Stewards (highest grade)	66.00	35.90   72.00	<b>7</b> 1.8 9.1
Stewards and cooks, cabin, etc	55.00 33.00	61.00	10.9
Mess attendants, 1st class <sup>1</sup>	33.00	$\frac{41.00}{41.00}$	24.2 24.2
Mess attendants, 2d class <sup>1</sup>	$\frac{27.50}{22.00}$	39.50 37.00	43.6 68.1
Artificer Branch.	22.00	37.00	00.1
Chief Petty Officers:			
Special mechanics	139.70 77.00	145.70 83.00	4.3 7.8
Electricians	66.00	72.00	9.1
PrintersCarpenters, matcs	66.00 55.00	72.00 61.00	$\frac{9.1}{10.9}$
Water tenders	55.00	61.00	10.9
StorekeepersPetty Officers, 1st class:	55.00	61.00	10.9
Mechanics, 1st class	88.00	94.00	6.8
Blacksmiths, 1st class. Coppersmiths, 1st class.	$\begin{bmatrix} 71.50 \\ 71.50 \end{bmatrix}$	$77.50 \\ 77.50$	8.4 8.4
Patternmakers, 1st class	71.50	77.50	8.4
Molders, 1st class Boilermakers	$71.50 \ 71.50$	$71.50 \\ 77.50$	 8.4
Machinists mates, 1st class	60.50	66 50	9.9
Coppersmiths Shipfitters, 1st class	$\frac{60.50}{60.50}$	66.50 66.50	$9.9 \\ 9.9$
Electricians, 1st class	55.00 55.00	61.00	10.9 10.9
Plumbers and fitters	49.50	61.00 55.50	12.1
Watertenders Engineers, 1st class.	$\frac{49.50}{49.50}$	$\begin{bmatrix} 55.50 \\ 55.50 \end{bmatrix}$	$\substack{12.1\\12.1}$
Painters, 1st class	44.00	. 52.00	18.2
Sailmakers, mates. Carpenters, mates, 1st class.	$\frac{44.00}{44.00}$	$\frac{52.00}{52.00}$	$\frac{18.2}{18.2}$
Storkeepers, 1st class	44.00	52.00	18.2
Printers, 1st class	44.00	52.00	18.2
Blacksmiths, 2nd class	55.00	66.00	20.0
Coppersmiths, 2nd class Patternmakers, 2nd class	55.00 55.00	61.00	$\frac{10.9}{10.9}$
Molders, 2nd class Machinists, mates, 2nd class	55.00	61.00	10.9
Electricians, 2nd class	$\begin{array}{c c} 49.50 \\ 44.00 \end{array}$	55.50 52.00	$\frac{12.2}{18.2}$
Shipfitters, 2nd class Engineers, 2nd class	44.00	52.00	18.2
Ollers	44.00 40.70	$\frac{52.00}{48.70}$	18.2 19.7
Carpenters, mates, 2nd class. Printers, 2nd class.	38.50	46.50	$\frac{20.8}{20.8}$
Storekeepers, 2nd class	$\frac{38.50}{38.50}$	$\begin{array}{c c} 46.50 \\ 46.50 \end{array}$	$\frac{20.8}{20.8}$
Petty Officers, 3rd class: Electricians, 3rd class	33.00	41.00	24.2
Carpenters, mates, 3rd class	33.00	41.00	24.2
Painters, 3rd class. Storekeepers 3rd class.	33.00 33.00	$\frac{41.00}{41.00}$	$24.2 \\ 24.2$
Seamen, 1st class: Firemen, 1st class	1	-	
Shipwrights	$\frac{38.50}{27.50}$	46.50 35.50	$\frac{20.8}{29.1}$
Seamen, 2nd class: Firemen, 2nd class			
Seamen, 3rd class:	33.00	41.00	24.2
Firemen, 3rd class Landsmen	$ \begin{array}{c c} 24.20 \\ 17.60 \end{array} $	36.20	49.6 82.6
	17.00	32.60	02.0

Lower rates to non-citizen of U. S., \$24, \$20, and \$16, respectively.

## CHAPTER 16. NAVY YARDS.

The hourly wage rates in 12 of the Navy Yards and stations of the United States Government are shown below for the years 1914 and 1919, except that for New Orleans and Pensacola the 1914 rates were not available and those for 1911 have been given instead. This affects the comparisons but little as between 1911 and 1914 there were only minor

changes of rates and some occupations did not change at all.

The first table shows the rates for all yards combined. This is followed by a series of tables for the yards separately. At the present time the wage rates for navy yards are almost completely standardized, there being one series of rates for the Atlantic Coast and one for the Pacific Coast. The only important exception is in the case of common labor, for which lower rates are paid in the South Atlantic than in the North Atlantic district. The 8-hour basic day prevails in all these yards.

## SUMMARY SHOWING AVERAGE RATES OF DAILY PAY IN SELECTED OCCUPATIONS IN NAVY YARDS: 1914 and 1919.

	Average rates of	pay per day.	Per cent
Occupation.	1914	1919	increase.
Boilermakers	\$3.69	\$6.40	73.
Coppersmiths		6.88	75.
Electricians		6.40	58.
Machinists	3.81	6.40	68.
Machinists, electrical	3.85	6.40	66.
Molders	3.71	6.40	73.
Patternmakers	4.07	6.93	70.
Pipefitters	3.54	6.40	81.
Plumbers	3.16	6.40	102.
Riveters	3.47	6.40	84.
Shipfitters	3.72	6.40	72.
Shipemiths	3.72	6.40	72.
Coolmakers	4.00	6.88	72.
Holders on		4.85	94.
Laborers, common	2.03	3.56	<b>7</b> 5.

#### PORTSMOUTH, N. H.

	Rates of pay	Per cent	
Occupation.	1914	1919	increase.
Boilermakers	\$3.60	\$6.40	77.7
Coppersmiths	4.00	6.88	72.0
Electricians	4.00	6.40	60.0
Machinists	3.60	6.40	77.7
Machinists, Electrical	3.60	6.40	77.7
Molders		6.40	
Pattern makers	4.00	6.88	72.0
Pipefitters	3.60	6.40	77.7
Plumbers	3.52	6.40	81.8
Riveters		6.40	01.0
DL:_C44	13.52	6.40	81.8
Shipfitters		26.40	00
Shipsmiths			
Toolmakers	4.00	6.88	72.0
Holders on	2.40	4.80	100.0
Laborers, common	2.00	3.68	84.0

<sup>11911</sup> rate. 2Heavy fires, \$7.68.

#### BOSTON, MASS.

Occupation.	Rates of pay per day.		Per cent
	1914	1919	increase.
Boilermakers. Coppersmiths Electricians Machinists Molders. Pattern makers Pipefitters. Plumbers. Riveters Shipfitters. Shipsmiths	\$3.76 3.76 4.80 3.76 3.52 4.00 4.00 4.40 3.36 3.76 3.76	\$6.40 6.88 6.40 6.40 6.40 6.40 6.40 6.40 6.40	70. 83. 33. 70. 81. 72. 60. 45. 90. 70.
Toolmakers Holders on Laborers, common	$\begin{bmatrix} 4.00 \\ 2.40 \\ 2.24 \end{bmatrix}$	6.88 4.80 3.68	72. 100. 64.

<sup>1</sup>Heavy fires, \$7.68.

NEWPORT, R. I.

Occupation	Rates of pay	Per cent	
	1914	1919	increase.
Boilermakers	\$3.44	\$6.40	86.0
Coppersmiths	1	6.88	
Electricians	1	6.40	
Machinists		6.40	77.7
Machinists, Electrical		6.40	81.8
Molders	3.68	6.40	73.9
Pattern makers		6.88	68.9
Pipefitters		6.40	150.0
Plumbers		6.40	70.3
Riveters		6.40	
Shipfitters		6.40	
Shipsmiths		16.40	
Coolmakers		6.88	
Holders on.		4.80	
Laborers, common		3.68	70.3

<sup>1</sup>Heavy fires, \$7.68.

NEW YORK, N. Y.

Occupation.	Rates of pay	Per cent	
	1914	1919	increase.
Boilermakers	1\$3.76	\$6.40	70.
Coppersmiths	4.00	6.88	72.
Electricians	4.48	6.40	42.
Machinists	4.00	6.40	60.
Machinists, Electrical			
Molders	3.76	6.40	70.
Pattern makers	4.48	6.88	53.
Pipefitters	3.76	6.40	70.
Plumbers		6.40	
Riveters	3.28	6.40	95.
Shipfitters	3.76	6.40	70.
Shipsmiths	4.00	26.40	60.
Coolmakers	4.00	6.88	72.
Holders on.	2.64	4.88	81.
aborers, common	2.00	3.68	84.

<sup>&</sup>lt;sup>1</sup>1911 rates. <sup>1</sup>Heavy fires, \$7.68.

#### PHILADELPHIA, PA.

	Rates of pay	Per cent	
Occupation.	1914	1919	increase.
Boilermakers Coppersmiths Electricians Machinists Molders Pattern makers Pipefitters Plumbers Riveters Shipfitters Shipfitters Shipsmiths Toolmakers Holders on Laborers common	3.76 3.76 3.44 3.52 3.04 3.52 3.52	\$6.40 6.88 6.40 6.40 6.40 6.40 6.40 6.40 6.40 6.40	86.0 87.0 70.2 83.0 86.0 81.8 110.5 81.8 81.8 81.8

#### WASHINGTON, D. C.

Occupation.	Rates of pay	Per cent	
	1914	1919	increase.
Boilermakers. Coppersmiths Electricians Machinists	4.08	\$6.40 6.88 6.40 6.40	72.0 72.0 56.8
Machinists, Electrical. Molders Pattern makers. Pipefitters.	3.92 4.32	6.40 6.40 6.88 6.40	70.2 63.3 59.3 63.3
Plumbers Riveters Shipfitters Shipemiths	4.16	6.40 6.40 6.40 26.40	53.8
Holders on Laborers, common		6.88 4.80 3.68	70.4

#### NORFOLK, VA.

	Rates of pa	Per cent	
Occupation.	1914	1919	increase.
Boilermakers	1\$3.52	\$6.40	81.8
Coppersmiths	3 <b>6</b> 8	6.88	87.0
Electricians	3.50	6.40	82.9
Machinists	3.52	6.40	81.8
Molders		6.40	
Pattern makers	3.84	6.88	79.2
Pipefitters	3.76	6.40	70.2
Plumbers	4.24	6.40	50.9
Riveters		6.40	
Shipfitters	3.52	6.40	81.8
Shipemiths	13.28	<sup>2</sup> 6.40 ∣	95.1
Toolmakers	3.76	6.88	83.0
Holders on		4.80	
Laborers, common	1.76	3.68	109.1
	1		

<sup>&</sup>lt;sup>1</sup>1911 rates. <sup>2</sup>Heavy fires, \$7.68.

<sup>&</sup>lt;sup>1</sup>1911 rates. <sup>2</sup>Heavy fires, \$7.68.

<sup>&</sup>lt;sup>1</sup>1911 rates. <sup>2</sup>Heavy fires, \$7.68.

#### CHARLESTON, S. C.

	Rates of pay	Per cent	
Occupation.	1914	1919	inerease.
Boilermakers	\$3.60	\$6.40	77.8
Coppersmiths	3.84	6.88	79.5
Electricians		6.40	
Machinists	3.60	6.40	77.8
Machinists, Electrical	4.00	6.40	60.0
Molders	3.60	6.40	77.8
Pattern makers	3.76	6.88	83.0
Pipe fitters	2.80	6.40	128.
Plumbers	4.00	6.40	60.0
Riveters	3.44	6.40	86.0
Shipfitters	3.52	6.40	81.8
Shipsmiths	3.52	<sup>2</sup> 6.40	81.3
Coolmakers	3.76	6.88	83.
Iolders on	2.56	4.80	87.
Laborers, common.	1.52	2.88	89.

#### PENSACOLA, FLA.

		Rates of pay	Per cent	
Occupation.		1911	1919	increase.
Boilermakers		\$3.68	\$6.40	73.9
Coppersmiths		4.00	6.88	72.0
Electricians		3.76	6.40	70.2
Machinists, Electrical.		3.76	6.40	70.2
Molders			6.40	
Pattern makers		4.00	6.88	72.0
Pipefitters		3.20	6.40	100.0
Plumbers Riveters		$\frac{3.28}{3.20}$	6.40	95.1 100.0
Shipfitters		3.68	6.40	73.9
Shipsmiths		3.68	16.40	73.9
Foolmakers		3.76	6.88	83.0
Holders on		2.00	4.80	140.0
Laborers, common		1.68	2.88	71.4

<sup>&</sup>lt;sup>1</sup>Heavy fires, \$7.68.

#### NEW ORLEANS, LA.

	Rates of pa	Rates of pay per day.			
Occupation.	1914	1919	increase.		
Boilermakers	\$3.52	\$6.40	81.8		
Coppersmiths	3.52	6.88	95.5		
Electricians		6.40			
Machinists		6.40			
Machinists, Electrical	4.00	0.21			
Molders*	3.52	6.40	81.8		
Pattern makers	. 1 3.76 1	6.88	83.6		
Pipefitters	3.52	6.40	81.8		
Plumbers	4.00	6.40	60.0		
Riveters	3.52	6.40	81.8		
Shipfitters	3.76	6.40	70.3		
Shipsmiths	3.76	<sup>1</sup> 6.40	70.3		
Toolmakers	4.00	6.88	72.6		
Holders on	2.00	4.80	140.0		
Labors, common		2.88	44.0		

<sup>&</sup>lt;sup>1</sup>Heavy fires, \$7.68.

<sup>&</sup>lt;sup>1</sup>1911 rates. <sup>2</sup>Heavy fires, \$7.68.

#### WAGES IN VARIOUS INDUSTRIES.

#### PUGET SOUND, WASH.

	Rates of pay	Per cent	
Occupation.	1914	1919	increase.
Boilermakers	\$4.00	\$6.40	60.0
Coppersmiths	4.24	6.88	62.2
Electricians	4.24	6.40	50.9
Machinists	4.00	6.40	60.0
Molders	4.00	6.40	60.0
Pattern makers	4.24	7.52	75.7
Pipefitters	3.76	6.40	70.2
Plumbers	4.16	6.40	53.8
Riveters	3.84	6.40	66.6
Shipfitters	4.00	6.40	60.0
Shipsmiths		<sup>1</sup> 6.40	,
Toôlmakers	4.24	6.88	62.2
Holders on	2.72	5.12	88.1
Laborers, common	2.40	4.16	73.3

Heavy fires, \$7.68.

#### MARE ISLAND, CAL.

	Rates of p	ay per day.	Per cent
Occupation.	1914	1919	increase.
Boilermakers	\$4.24	\$6.40	50.9
Coppersmiths	4.40	6.88	56.3
Electricians	3.20	6.40	100.0
Machinists	4.24	6.40	50.9
Machinists, Electrical	4.32	6.40	48.1
Molders		6.40	
Pattern makers	5.04	7.52	49.2
Pipefitters	4.16	6.40	53.8
Plumbers	4.72	6.40	35.6
Riveters	4.08	6.40	56.9
Shipfitters	4.24	6.40	50.9
Shipsmiths	4.24		
Toolmakers	4.48	6.88	53.5
Holders on	3.04	5.12	68.3
Laborers, common	2.40	4.16	73.3

#### CHAPTER 17.

#### PRINTERS.

The trend of wages of compositors and linotype operators in both newspaper, and book and job work, is shown in the following table in detail for several representative cities in various parts of the country. The data here presented were obtained from the computations of the United States Bureau of Labor Statistics, supplemented, for 1919, by the wage scale advances as published in the Journals and Bulletins for the Typographical Union. In cases where no advances have been reported during the year, the scale that prevailed in 1918 has been given for 1919. Rates of pay for day work only are presented. On newspaper work, for both compositors and operators, the weekly scale for night work averages between three and five dollars per week more than that for day work.

## WEEKLY EARNINGS, FULL TIME, OF COMPOSITORS AND LINOTYPE OPERATORS IN VARIOUS CITIES. 1914 and 1919.

#### LINOTYPE OPERATORS.

	Day, Newspapers.			E	Book and Jol	D.
	1914	1919	Per cent increase.	1914	1919	Per cent increase.
Boston, Mass	\$26.46	\$28.56	7.9	\$23.00	\$35.00	52.5
New York, N. Y	30.00	43.50	45.0	26.00	39.00	50.0
Philadelphia, Pa	22.00	25.50	15.9	22.00	31.00	40.
Pittsburgh, Pa	27.00	42.00	55.5	24.00	27.00	12.5
Atlanta. Ga	1	]		22.50	22.50	
Baltimore, Md	24.00	35.00	45.8	22.50	24.00	6.
Cincinnati, Ohio	26.00	42.00	61.5	25.00	26.00	4.0
Chicago, Ill		42.00			41.00	
Cleveland, Ohio	25.80	38.10	47.7	25.80	38.00	47.
Indianapolis, Ind	24.00	33.00	37.5	24.00	30.00	25.
Kansas City, Mo	28.50	28.50		26.50	30.00	13.:
New Orleans, La				24.00	24.00	
Birmingham, Ala	22.26		<u></u>			
Denver, Colo	28.50	39.00	36.8	26.00	31.50	21.
Los Angeles, Cal	29.00	30.00	3.4	29.00	30.00	3.
San Francisco, Cal	29.00	31.00	6.9	29.00	33.00	13.
Seattle, Wash	31.50	42.00	33.3			
Richmond, Va	20.00					
Portland, Ore				31.50		

#### Compositors.

	Da	y, Newspap	ers.	Book and Job.		ь.
	1914	1919	Per cent increase.	1914	1919	Per cent increase
Boston, Mass	\$26.46	\$34.86	31.7	\$21.00	<b>\$</b> 33.50	59.5
New York, N. Y	30.00	43.50	45.0	24.00	39.00	62.5
Pliladelphia, Pa	20.00	25.50	27.5	20.00	29.00	45.0
Pittsburgh, Pa	27.00	42.00	55.6	20.00	23.00	15.0
Atlanta, Ga	21.00	24.00	14.3	18.00	21.00	16.7
Baltimore, Md	24.00	35.00	45.8	18.00	21.00	16.7
Cincinnati, Ohio		42.00				
Chicago, Ill	27.90	42.00	50.5	24.00	41.00	70.8
Cleveland, Ohio	25.80	38.10	47.7	20.00	32.00	60.0
Indianapolis, Ind	24.00	33.00	37.5	21.00	30.00	43.0
Kansas City, Mo	28.50	33.00	15.8	20.00	24.00	20.0
New Orleans, La	23.80	24.23	1.8	21.00	21.00	
Birmingham, Ala		28.35				
Denver, Colo	28.50	39.00	36.8	26.00	31.50	21.2
Los Angeles, Cal	29.00	34.00	17.2	24.00	25.00	4.1
San Francisco, Cal	29.00	34.00	17.2	24.00	28.00	16.7
Seattle, Wash	31.50	42.00	33.3	25.50	28.50	11.8
Richmond, Va					23.00	
Portland, Ore		46.00				

#### Chapter 18.

#### RAILROAD EMPLOYEES.

The following table shows the average hourly or daily earnings of 68 occupations or occupational groups of employees of Class I Railroads in the United States for the year ending December 31, 1915, and for the month of January 1919, as reproduced from the Report of the Railroad Wage Commission of 1918 and from a statement prepared by the U. S. Railroad Administration under date of April 8, 1919. The data for January 1919 represent, in general, conditions still in force, except in the case of the shopmen whose rates were increased by a recent order. See Chapter 14 for the effect of this order on the wages of certain railroad shop trades.

AVERAGE EARNINGS OF EMPLOYEES OF CLASS I RAILROADS IN THE UNITED STATES, YEAR ENDING DECEMBER 31, 1915 (FROM REPORT OF THE RAILROAD WAGE COMMISSION) AND FOR THE MONTH OF JANUARY, 1919 (FROM STATEMENT PREPARED BY THE RAILROAD ADMINISTRATION UNDER DATE OF APRIL 8, 1919)

			gs per Hour hose marked which are r day	Per Cent Increase January 1919
-		Year ending Dec. 31, 1915	Month of January 1919	year 1915
1. 2. 3.	General officers, \$3000 p. a. and upwards.  General officers, below \$3,000 pr annum.  Division officers, \$3000 p. a. and upwards.	\$2.52 .698 1.20	\$16.07 * 6.74 * 10.94 *	
4. 5. 6.	Division officers, below \$3,000 per annum  Clerks, \$900 p. a. and upwards (except No. 37)  Clerks below \$900 p. a. (except No. 37)	.523 .416 .224	7.10 * .51 .31	23 38
7. 8. 9.	Messengers and attendants	.149 .404 .329	2.53 * 5.12 * 5.32 *	
10. 11. 12.	Section foremen	.233 .429 .347	3.96 * 8.31 * 6.77 *	
13. 14. 15.	Machinists Boilermakers Blacksmiths	.387 .386 .373	.719 .713 .707	86 85 90
16. 17. 18.	Masons and bricklayers. Structural ironworkers. Carpenters.	.279 .321 .276	.627 .753 .579	125 135 110
19. 20. 21.	Painters and upholsterers. Electricians Air-brake men	.297 .285 .266	.613 5.38 .604	106 127
22. 23. 24.	Car inspectors Car repairers Other skilled laborers	.232 .265 .283	.597 .568 .624	157 114 120
25. 26. 27.	Mechanics' helpers and apprentices. Section men. Other unskilled laborers.	.226 .150 .182	.471 .372 .413	108 149 127

<sup>\*</sup> Per Day.

AVERAGE EARNINGS OF EMPLOYEES OF CLASS I RAILROADS IN THE UNITED STATES, YEAR ENDING DECEMBER 31, 1915 (FROM REPORT OF THE RAILROAD WAGE COMMISSION) AND FOR THE MONTH OF JANUARY, 1919 (FROM STATEMENT PREPARED BY THE RAILROAD ADMINISTRATION UNDER DATE OF APRIL 8, 1919)—Continued.

	OCCUPATION.	Except the by star	s per Hour hose marked * which are r day	Per Cent Increase January 1919
-		Year ending Dec. 31, 1915	Month of January 1919	over year 1915
28. 29. 30.	Foreman of const. gangs and work trains.  Other men in const. gangs and work trains.  Traveling agents and solicitors.	.275 .168 .567	.539 .397 6.35 *	96 136
31. 32. 33.	Employees in outside agencies	.387 .423 .528	4.59 * 6.32 * .915	73
34 . 35 . 36 .	Telegraphers, telephoners, and block operators.  Telegraphers and telephoners operating interlockers.  Levermen (non-telegraphers).	.264 .287 .213	.541 .563 .496	105 96 133
37. 38. 39.	Telegraphers - clerks. Agent telegraphers. Station agents (non-telegraphers)	.241 .224 .253	.531 .547 4.38 *	120 144
40. 41. 42.	Station masters and assistants	.306 .187 .400	5.20 * .408 7.67 *	118
43. 44. 45.	Yardmaster's assistants (not yard clerks). Yard engineers and motormen. Yard firemen and helpers.	.368 .425 .261	6.51 * .688 .485	62 86
46. 47. 48.	Yard conductors (or foremen)	.386 .349 .186	.636 .601 .347	65 72 ,87
49. 50. 51.	Other yard employees. Hostlers Enginehouse-men	.167 .332 .176	.374 .506 .423	124 52 140
<b>52</b> . <b>5</b> 3. <b>54</b> .	Road freight engineers and motormen	.598 .382 .498	.825 .616 . <b>6</b> 92	38 <b>6</b> 1 39
55. 56. 57.	Road freight brakemen and flagmen	.336 .824 .506	.543 .987 .694	62 20 37
58. 59. 60.	Road passenger conductors	.669 .364 .381	.83 <b>3</b> .576 .580	25 58 <b>52</b>
61. 62. 63.	Other road train employees.  Crossing flagmen and gatemen.  Drawbridge operators.	.291 .115 .168	.470 2.65 * 3.04 *	62
64. 65. 66.	Floating equipment employees  Express service employees  Policemen and watchmen	.214 .176 .191	.460 .136 3.45 *	d 115
67. 68.	Other transportation employees	.203 .194	3.38 * 2.74 *	

<sup>•</sup> Per day d Decrease.

#### CHAPTER 19.

#### SEAMEN.

The monthly wages of various classes of seamen engaged in the Atlantic and Gulf Coast trade were compiled in a report of the Director of Marine and Dock Industrial Division, United States Shipping Board, recently issued. The following table summarizes the data therein presented. The range of rates between high and low are given as it was impracticable to draw proper averages. In considering this table, it is to be remembered that the wages of seamen are in addition to board and lodging.

RATES OF WAGES PER MONTH OF DECK OFFICERS AND CREW, AND OF LICENSED ENGINEERS AND OF FIREMEN, ATLANTIC AND GULF COAST.

1914 and 1919.

(Compiled from association and union wage scales and awards of U. S. Shipping Board, as setforth in Report of the Director of Marinc and Dock Industrial Division, U. S. Shipping Board, December 31, 1918, and subsequent awards, July, 1919.)

	. 19	14	1919 (	July).	Per cent increase.	
Occupation.	Low.	High.	Low.	High.	Low.	High.
DECK OFFICERS AND CREW. Master (captain) First mate. Second mate. Third mate. Fourth mate. Able seaman. LICENSED ENGINEERS AND FIREMEN.	\$400.00 150.00 140.00 130.00 \$0.00 30.00	\$400.00 150.00 140.00 130.00 80.00 30.00	\$412.50 241.25 212.50 188.75 165.00 85.00	\$412.50 241.25 212.50 188.75 165.00 85.00	31.25 60.83 51.79 45.19 106.25 163.33	31,25 60,83 51,79 45,19 106,25 163,33
Chief engineer	200.00 126.00 115.00 115.00 80.00	200.00 126.00 115.00 115.00 80.00	387.50 241.25 212.50 188.75	387.50 241.25 212.50 188.75	93.75 93.00 84.78 64.13 68.75	93.75 93.00 84.79 64.13 68.75

#### CHAPTER 20.

#### SHIPYARDS.

The award of the Shipbuilding Labor Adjustment Board in October 1918 provided for two general scales of shippard wages—one for the Atlantic Coast and one for the Pacific Coast. These wage scales are still in effect in September 1919. It is very difficult to obtain comparable data for shippard workers in 1914 and in 1919.

The first of the following two tables presents the wage rates for the San Francisco shipyards in 1914 and for the Pacific Coast District in 1919, for those occupations for which comparable data were obtainable. In the same way the second table presents similar information for the Delaware River shipyards in 1914 and for the Atlantic Coast District in 1919, for those occupations for which comparable data could be obtained.

The basic 8-hour day is general in the shipyards.

#### PACIFIC COAST DISTRICT.

MINIMUM HOURLY RATES OF PAY (1N CENTS), PACIFIC COAST DISTRICT, 1N 1919, WITH COMPARISON OVER SAN FRANCISCO DISTRICT 1N 1914.

Occupation.	San Francisco District 1914. <sup>1</sup>	Whole Pacific Coast District 1918. <sup>2</sup>	Per cent increase.
Acetylene welders Blacksmiths Blacksmiths Boilermakers Chippers and calkers Drillers Drillers Holders-on Laborers Machinists Molders Patternmakers Pape fitters Punch and shear men Reamers Riveters Sheet metal workers Ship fitters	50.0 37.5 50.0 37.5 34.4 37.5 30.0 50.0 62.5 43.8 37.5 37.5 45.0	80.0 80.0 58.0 80.0 80.0 68.0 64.0 52.0 80.0 94.0 80.0 68.0 68.0 80.0 80.0	60.0 60.0 54.6 60.0 60.0 54.6 90.0 71.0 60.0 50.4 82.6 81.3 77.8 72.0 60.0

<sup>&</sup>lt;sup>1</sup>No change in rates of San Francisco District from 1907 to 1914. <sup>2</sup>These are the rates of pay as of October 1, 1918, and still in effect.

#### ATLANTIC COAST DISTRICT

MINIMUM HOURLY RATES OF PAY (IN CENTS), ATLANTIC COAST DISTRICT, IN 1919 WITH COMPARISON OVER DELAWARE RIVER DISTRICT IN 1914.

Occupation.	1914	1919.1	Per cent increase.
Loftsmen, 1st class. Loftsmen, 2nd class. Painters. Patternmakers.	39.0 30.0 33.3 27.5	90.0 	130.8 122.2 212.7
Cranemen Rivet testers Stage builders Hand riveters Holders-on	22.5	62.0	175.6
	29.5	86.0	191.5
	25.0	66.0	164.0
	20.0	80.0	300.0
	15.0	60.0	300.0
Rivet heaters. Passer boys². Ship carpenetrs. Punchers. Planers and scrapers.	$10.0 \\ 8.0 \\ 33.0 \\ 22.0 \\ 25.0$	50.0 25.0 80.0 64.0 64.0	400.0 212.5 142.4 190.9 156.0
Drillers and countersinkers. Pressmen. Layer-outs. Sheet metal workers. Acctylene burners and welders.	22.0 33.0 46.0 30.0 30.0	364.0 72.0 (1) 80.0 76.0	190.9 118.1 166.7 153.3
Anglesmiths. Blacksmiths. Boilermakers. Drillers. Flange turners.	30.0	*80.0	166.7
	22.0	*80.0	263.6
	18.5	80.0	332.4
	18.5	68.0	267.6
	25.0	86.0	244.0
Bolters. Linermen. Tank testers. Hand chippers. Coppersmiths.	15.0	58.0	286.7
	20.0	64.0	220.0
	25.0	86.0	244.0
	22.5	80.0	255.6
	36.0	86.0	138.9
Plumbers. Drillers (boiler shop). Reamers. Electricians. Machinists.	33.0	80.0	142.4
	17.5	768.0	288.5
	15.0	58.0	286.6
	30.0	80.0	166.7
	33.0	80.0	142.4
Ship fitters	30.0	80.0	166.7
	30.0	80.0	166.7

<sup>&</sup>lt;sup>1</sup>These are the rates of pay as for October 1, 1918, and still in effect.

<sup>2</sup>Newport News.

<sup>3</sup>Drillers (pneumatic), 68 cents.

<sup>4</sup>\$0.05 in addition to journeymen's hourly rate.

<sup>4</sup>Anglesmiths, heavy fires, \$0.96.

<sup>4</sup>Blacksmiths, heavy fires, \$0.96.

<sup>7</sup>Drillers and countersinkers, \$0.64 (ship shed department).

#### CHAPTER 21.

#### STREET RAILWAY EMPLOYEES.

The wage rates of motormen and conductors given in this chapter are maximum rates. Most street ear systems employ a wage system under which wages are increased automatically from time to time according to length of service. At present the great majority of the larger systems

fix the limit necessary to obtain the maximum at one year.

The following table gives the maximum hourly rates of motormen and conductors, for 1914 and 1919, in representative eities. The information was compiled from trade and labor publications and is believed to be closely accurate, except that the data for 1919 are not all for the same month. In most cases the rates shown are those which were in effect in September 1919. Full information was not available regarding hours of labor of motormen and conductors. In a few cities—notably Boston and Chicago—these employees are now on an 8-hour basis, but in most places the hours of labor are more than eight and are very complicated, owing to the adjustment of hours to traffic conditions.

# MAXIMUM HOURLY RATES OF WAGES OF MOTORMEN AND CONDUCTORS ON, STREET RAILWAYS IN VARIOUS CITIES. 1911, 1914 and 1919.

(All entries for 1919 are for January, except as otherwise specified.)

Cities.	1911	1914	1919	Per cent increase 1919 over 1914.
NORTH ATLANTIC.				
Albany, N. Y. Boston, Mass.	127.0	28.0	40.0	42,9
Surface lines	128.9	31.3	60.0	91.7
Motormen	232.0	33.0	62.0	87.8
Conductors	$^{2}27.0$ $^{1}27.5$	$\frac{28.0}{28.5}$	56.5 50.0	101.8 75.4
Brockton, Mass. Buffalo, N. Y	$\frac{27.5}{28.0}$	28.0 30.0	51.0 48.0	$82.1 \\ 60.0$
Butler, Pa	24.0	25.0	54.0	11 <b>6.0</b>
Chelsea, Mass Easton, Pa	$\frac{27.5}{24.0}$	$\begin{array}{c} 28.0 \\ 27.0 \end{array}$	51.0 55.0	$^{82.1}_{103.7}$
Erie, Pa. Fall River, Mass.	$\frac{25.0}{27.5}$	$\frac{29.0}{28.0}$	45.0 51.0	$\begin{array}{c} 55.2 \\ 82.1 \end{array}$
Framingham, Mass	27.5	29.0	47.0	62.7
Gloucester, Mass. Hartford, Conn.	$\frac{27.5}{127.5}$	$\frac{28.0}{28.5}$	51.0 50.0	$\begin{array}{c} 82.1 \\ 75.4 \end{array}$
Haverhill, Mass. Lawrence, Mass.	27.5 27.5	$\frac{28.0}{28.0}$	51.0 51.0	$\begin{array}{c} 82.1 \\ 82.1 \end{array}$
Lowell, Mass	27.5	28.0	51.0	82.1
Lynn, Mass. Manchester, N. H.	$\frac{27.5}{125.0}$	$\substack{28.0 \\ 26.0}$	51.0 55.0	$\begin{array}{c} 82.1 \\ 111.5 \end{array}$
Meriden, Conn	<sup>1</sup> 27.5 <sup>1</sup> 27.5	$\frac{28.5}{28.5}$	50.0 50.0	75.4 75.4
Montpelier, Vt	122.0 27.0	25.0	35.0	<b>40.0</b>
Nashua, N. H. Newburgh, N. Y	21.0	$\frac{28.0}{23.0}$	35.0 35.0	$\begin{array}{c} 25.0 \\ 52.2 \end{array}$
New Haven, Conn. New York, N. Y.	127.5	27.5	50.0	81.8
Brooklyn Rapid Transit. Surface lines	25.0	28.0	<b>6</b> 2.0	121. <b>4</b>
Elevated. Motormen	35.0	37.5	79.0	110.7
Conductors	24.0	25.0	457.0	128.0
Motormen Conductors	\$2.70 2.60	4\$2.85 4 2.70	#4.96 4.96	74.0 83.7
Interborough Rapid Transit.	• 2.00	- 2.10	* 4.50	83.7
Elevated lines. Motormen	3.50	3.75	6.32	68.5
ConductorsSubway lines.	▮ 2.50	2.60	44.56	75.4
Motormen	<sup>3</sup> 3.50 <sup>3</sup> 2.50	* 3.75 * 2.60	■ 6.32 ■ 4.56	68.5 75.4
Pittsburgh, Pa	<sup>1</sup> 30.0c 25.0	30.0c 27.0	<b>45.0</b> c 45.0 €	80.0 66.7
Providence, R. I	27.0	28.5	56.0	96.5
Quincy, Mass. Rochester, N. Y.	27.5 126.5	28.0 28.0	$\frac{51.0}{51.0}$	$\frac{82.1}{82.1}$
Salem, Mass Schenectady, N. Y.	$\frac{27.5}{127.0}$	$\frac{28.0}{28.5}$	51.0 45.0	82.1 57.9
Scranton, Pa. Sharon, Pa.	126.5 27.5	26.5 30.5	49.0 47.5	84.9 55. <b>7</b>
Springfield, Mass	*\$2.85	<b>\$</b> 2,85	<b>2\$3</b> .87	35.8
Syracuse, N. Y. Taunton, Mass.	$\substack{26.5 \text{c} \\ 27.5}$	28.5c $28.0$	45.0c 51.0	$\begin{array}{c} 57.9 \\ 82.1 \end{array}$
Trenton, N. J. Troy, N. Y.	$\frac{24.0}{27.0}$	26.0 28.0	42.0 40.0	61.5 42.9
Utica, N. Y	<sup>1</sup> 26.5	28.5	45.0	<b>57.9</b> _
Waterbury, Conn	$^{1}27.5$ $20.0$	$\frac{28.5}{22.5}$	50.0 42.5	75. <b>4</b> 88. <b>9</b>
Woburn, Mass	$\frac{27.5}{28.5}$	$\frac{28.0}{28.5}$	51.0 43.0	$\begin{array}{c} 82.1 \\ 50.9 \end{array}$
South Atlantic.		-		
Atlanta, GaAugusta, Ga	$\substack{23.0 \\ ^{1}22.0}$	$\frac{25.0}{22.0}$	40.0 29.0	60.0 31.8
Charleston, S. C. Columbia, S. C.	$^{121.0}_{^{122.0}}$	$\begin{array}{c} 21.0 \\ 22.0 \end{array}$	40.0 44.5	90.5 102.3
Asheville, N. C. Birmingham, Ala.	21.5 125.0	25.0	44.0	76.0
Covington, Ky	22.0	$\substack{26.0 \\ 27.0}$	50.0 48.0	$\frac{92.3}{77.8}$
Galveston, Texas Lexington, Ky	125.0	25.0	42.0	68. <b>0</b>
City lines. Interurban.	120.0 122.0	$\frac{20.0}{22.0}$	32.0 35.0	60.0 59.1
Little Rock, Ark	25.0	25.0	35.0	40.0
McAllister, Okla	$^{1}26.0$ $23.25$	$\frac{26.0}{24.0}$	$\frac{37.0}{42.0}$	$\frac{42.3}{75.0}$
San Antonio, Texas. Shreveport, La.	125.0 126.0	26.0 27.0	42.0 37.0	61.5 37.0
	20.0	20	37.0	07.0

MAXIMUM HOURLY RATES OF WAGES OF MOTORMEN AND CONDUCTORS ON STREET RAILWAYS IN VARIOUS CITIES, 1911, 1914 AND 1919 (Continued).

Cities.	1911	1914	1919	Per cent increase 1919 over 1914.
NORTH CENTRAL.				
Double track	$\frac{26.5}{27.5}$	$\frac{26.5}{27.5}$	$\frac{51.0}{51.0}$	92.5 85.5
Interruban	$\begin{array}{c} 27.0 \\ 24.0 \\ 25.0 \\ 20.0 \end{array}$	$31.0 \\ 29.0 \\ 26.0 \\ 24.0$	$49.0 \\ 48.0 \\ 42.0 \\ 42.0$	58.1 65.5 61.5 75.0
Chicago, Ill.  Motormen on all except northwestern division. Conductors. Surface lines. Cincinuati, Ohio. Cleveland, Ohio.	$32.0 \\ 25.5 \\ 30.0 \\ 23.0 \\ 130.0$	34.0 $27.0$ $32.0$ $27.0$ $30.0$	$\begin{array}{c} 67.0 \\ 62.0 \\ 65.0 \\ 50.0 \\ 60.0 \end{array}$	97.1 129.6 103.1 85.2 100.0
Columbus, Ohio. Motormen Conductors Davenport, Iowa Des Moines, Iowa Detroit, Mich Dubuque, Iowa East Liverpool, Ohio Galesburg, Ill Gary, Ind Indianapolis, Ind Jackson, Mich. 2	125.0 26.0 28.0 28.0 23.0 29.0 22.0 30.0 24.0 25.0	27.0 27.0 28.0 29.0 32.0 25.0 30.0 24.0 27.0 26.0	47.0 45.0 60.0 60.0 60.0 42.0 50.0 42.0 48.0 39.0 42.0	74.1 66.7 114.2 106.9 87.5 68.0 66.7 75.0 60.0 44.4 61.5
Joliet, Ill. City lines Interurban lines Kalamazoo, Mich La Crosse, Wis. Lansing, Mich Madison; Wis Mansfield, Ohio Niles, Ohio Omaha, Nebr. Portsmouth, Ohio Rock Island, Ill. Steubenville, Ohio Toledo, Ohio Wheeling, W. Va. Youngstown, Ohio	25.0 26.0 25.0 23.0 24.0 24.0 28.0 28.0 26.0 25.0 25.0 27.0 28.0	26.0 27.0 26.0 25.0 24.0 24.0 31.0 29.0 29.0 29.0 29.0. 27.0 29.0	54.0 60.0 42.0 42.0 42.0 45.0 45.0 45.0 60.0 50.0 46.0 50.0	107.7 122.2 61.5 60.0 61.5 75.0 87.5 54.8 55.2 68.0 114.3 72.4 70.4 72.4 54.8
Western. Butte, Mont. Colorado Springs, Colo. Oakland, Cal. Ogden, Utah. Portland, Oregon. Sacramento, Cal. Salt Lake City, Utah. San Francisco, Cal. (Municipal Railway). Seattle, Wash. (Benton & Southern Railway). Stockton, Cal.	145.0 30.0 140.0 27.0 30.0 132.0 31.0 137.5 30.0 27.0	45.0 30.0 40.0 31.0 32.0 33.0 37.5 32.0 30.0	$\begin{array}{c} 65.0 \\ 37.0 \\ 42.0 \\ 45.0 \\ 50.0 \\ 46.0 \\ 47.0 \\ 56.3 \\ 61.1 \\ 45.0 \end{array}$	44.4 23.3 5.0 50.0 61.3 43.8 42.4 50.0 90.9 50.0

<sup>&#</sup>x27;Year 1912.
'Year 1913.
'Per day; hours not reported.
'Per,day of 10 hours.
'Per day of 8 hours.
'August, 1919.

# PART II. EARNINGS.



#### CHAPTER 22.

## EARNINGS IN VARIOUS MANUFACTURING INDUSTRIES OF THE UNITED STATES.

For a period of several years the United States Bureau of Labor Statistics has collected and published monthly, in its Monthly Labor Review, statistics as to the number of persons employed and total amount of pay roll in certain important manufacturing industries. The number and size of the establishments covered are sufficient to make the

results obtained very representative.

The number of persons employed means, in each case, the number of persons on the payroll during the period reported upon. It is thus not a true measure of actual employment and the amount of the payroll divided by the number of persons on the payroll does not give the true average earnings per individual. In general, average earnings shown by such division will be somewhat smaller than the true earnings owing to the inclusion of persons who did not work the full payroll period. In spite of this defect, however, the averages thus obtained are very useful, particularly as indicating the comparative earnings in different industries and the trend of earnings within the same industry.

The following table gives for each of the industries covered by the Bureaus' report the per capita earnings per week in Januray 1915, and in July 1919. In a few instances the data were not available as early

as January in 1915. The exceptions are noted in the table.

In considering the figures of the table it is to be borne in mind that changes in earnings from year to year may be due to changes in hours of labor or overtime work, and the figures are thus in no way indicative

of wage rates.

Another point to be noted is that, while the payroll period in most cases was one week, in a few cases it was two weeks and in the case of two industries it was a half month. In reducing the figures for these industries to a weekly basis, the average earnings for two weeks payroll have been divided by two and those for a half month payroll period have been divided by the number of days in the particular month and then multiplied by seven. This adjustment, in itself, introduces another element of error which prevents the averages from being any more than roughly indicative of actual earnings.

#### WAGES IN VARIOUS INDUSTRIES.

#### PER CAPITA WEEKLY EARNINGS IN VARIOUS INDUSTRIES 1915 and 1919.

(Compiled from Monthly Labor Reviews of U. S. Bureau of Labor Statistics.)

	earn	apita ings veek.	Per cent	Number on payroll.		Amount of payroll.	
; Industry.	1915 Jan.	1919 <b>Jul</b> y.	Increase.	6. 1915 1919 Jan. July.		1915 <b>J</b> an.	1919 July.
Boots and shoes. Cotton finishing. Cotton manufacturing. Hosiery and underwear. Iron and steel. Men's readymade clothing. Silk manufacturing. Woolon manufacturing. Car building and repairing. Cigar manufacturing. Automobile manufacturing. Leather manufacturing. Paper making.	7.75 11.76 11.92 8.99 9.70 13.20 29.33 17.23	22.27 18.04 16.39 26.94 24.43 17.56 21.02 23.69 17.13 27.74 23.08	111 129 105 95 117 79 84 61 96	56,929 12,597 59,694 27,467 100,792 19,053 17,033 17,057 *32,775 *24,086 *52,171 14,946 14,505	14,801 56,885 28,242 169,335 16,861 15,544 45,790 49,737 14,022 99,303 17,175	132,768 496,349 212,736 2,625,997 227,085 306,260 165,421 4865,315 4224,736 4898,866	329,566 1,026,176 462,837 10,102,974 411,908 545,795 962,529 2,609,108 240,192 2,754,297 396,421

<sup>&</sup>lt;sup>1</sup>February.

<sup>2</sup>Mareh.

<sup>1</sup>November.

#### CHAPTER 23.

EARNINGS IN MANUFACTURING INDUSTRIES OF NEW YORK STATE.

The average weekly earnings of employees in the manufacturing industries of New York state are published in the Labor Market Bulletin of the Bureau of Statistics and Information of the New York Industrial Commission. These figures are based upon returns from a large number of employers giving total employment and total payroll in their establishments. As indicating the comprehensive character of the data obtained the Bulletin states that returns were made by 1,648 representative firms with over 550,000 employees, or more than one-third of the factory workers in the State, and a weekly payroll of over \$12,000,000.

In considering these data it is important to bear in mind that they deal solely with earnings, and not with rates of pay, and that the earnings of an employee are, of course, dependent upon the amount of time worked.

The information regarding average weekly earnings is shown by months from June 1914 to June 1919, inclusive in the first of the two following tables, taken from the June 1919 issue of the Bulletin. The second table shows the average weekly earnings by industries for June 1914 and June 1919.

### AVERAGE WEEKLY EARNINGS IN REPRESENTATIVE NEW YORK STATE FACTORIES.

(Includes all employees in both office and shop.)
(From The Labor Market Bulletin of the New York State Industrial Commission, June, 1919.)

	1914	1915	1916	1917	1918	1919
Month.	Week including 15th of month.	Week including 15th of month.	Week including 15th of month.	Week including 15th of month.	Week including 15th of month.	Week including 15th of month.
January February March April May June July August September Octoher November December	\$12.70 12.54 12.53 12.48 12.26	\$12.44 12.41 12.65 12.54 12.74 12.81 12.66 12.89 12.86 13.30 13.45	\$13.53 13.77 13.96 14.15 14.24 14.41 14.41 14.44 14.87 14.95 15.16	\$15.28 15.31 15.79 15.50 16.08 16.20 16.17 16.44 16.97 17.33 17.69	1816.81 17.66 18.71 19.25 19.91 20.44 20.78 21.23 22.31 22.34 21.60 23.18	\$23.03 22.07 22.20 22.11 22.23 22.51
Average for year		\$12.85	\$14.43	\$16.37	\$20.35	

<sup>&</sup>lt;sup>1</sup>Drop in January, 1918, was due to Fuel Administrator's closing order for January 18-22. <sup>2</sup>Drop in November, 1918, was due to closing of factories on November 11, Armistice Day. Note.—The average weekly earning is obtained by dividing the total weekly payroll by the total number of employees on the payroll for the given week.

## AVERAGE WEEKLY EARNINGS IN JUNE IN REPRESENTATIVE NEW YORK STATE FACTORIES.

(Includes all employees in both office and shop.)

(From The Labor Market Bulletin of the New York State Industrial Commission, June, 1919)

Industry.	1914	1919
Stone, Clay and Glass Products Miscellaneous stone and mineral products Lime, coment and plaster Brick, tile and pottery Glass	\$12.69 15.50 13.66 11.26 12.10	\$24.19 25.77 25.97 21.49 24.00
Metals, Machinery and Conveyances. Gold, silver and precious stones. Brass, copper, aluminum, etc. Pig iron and rolling mill products Structural and architectural iron work. Sheet metal work and hardware. Firearms, tools and cutlery. Cooking, heating and ventilating apparatus. Machinery (including electrical apparatus). Automobiles, carriages and aeroplanes. Cars, locomotives and railway repair shops. Boat and shipbuilding. Instruments and appliances.	14.37 14.28 12.67 15.84 14.85 12.48 13.50 13.76 14.51 16.53 14.62 17.86 13.69	25.16 24.91 23.01 29.98 30.46 21.19 26.32 24.19 26.17 27.41 30.80 21.96
Wood Manufactures. Saw mill and planing mill products. Furniture and cabinet work. Pianos, organs and other musical instruments. Miscellaneous wood and allied products.	12.03 12.65 12.61 11.43 10.96	20.75 21.50 20.34 21.53 19.72
Furs, Leather and Rubber Goods Leather Furs and fur goods Boots and shoes Miscellaneous leather and canvas goods Rubber and gutta percha goods Pearl, horn, bone, celluloid, hair, etc	11.74 11.03 13.10 12.42 11.11 10.99 9.57	22.16 21.58 30.63 22.98 19.53 19.64
Chemicals, Oils, Paints, Etc.  Drugs and chemicals. Paints, dyes and colors.  Animal and mineral oil products.  Miscellaneous chemical products.	13.42 13.25 13.88 13.03 14.02	22.44 20.93 21.25 23.48 22.51
Paper	12.76	25.84
Printing and Paper Goods. Paper boxes and tubes. Miscellaneous paper goods. Printing and book making.	15.11 10.20 11.72 16.84	23.71 17.92 18.63 25.75
Textiles. Silk and silk goods. Wool manufactures. Cotton goods. Cotton and woolen hosiery and knit goods. Other textiles and allied products.	9.71 9.90 10.12 9.63 9.02 10.05	17.89 15.70 19.20 19.00 16.44 19.80
Clothing, Millinery, Laundering, Etc.  Men's clothing.  Mon's shirts and furnishings.  Women's clothing.  Women's underwear and furnishings.  Women's headwear.  Miscellaneous sewing.  Laundering, cleaning, dyeing etc.	10.88 12.01 9.31 12.80 8.94 11.93 8.34 8.96	18.82 21.86 14.51 22.61 16.27 20.39 14.70
Food, Liquors and Tobacco.  Flour, feed and other cereal products.  Fruit and vegetable canning and preserving.  Groceries not elsewhere classified.  Slaughtering, meat packing and dairy products.  Bread and other bakery products.  Confectionery and ice cream.  Beverages.  Cigars and other tobacco products.	11.72 14.62 7.28 13.32 14.49 11.61 .9.30 19.73 9.10	21.25 24.67 16.31 24.78 25.97 21.01 15.62 28.64 15.99
Water, Light and Power	15.96	26.53
Total Per cent increase	\$12.70	\$22.51 77.2